Health Status Registry Report 2002

Congenital Anomalies
Genetic Defects
Selected Disabilities

Includes British Columbia
Birth Data to Year 2000

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Published by
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Introduction

The Health Status Registry (HSR) is a comprehensive database of information operated by the B.C. Vital Statistics Agency. Data on individuals with congenital anomalies, other genetic conditions, and selected disabilities and handicapping conditions are collected in order to keep the public and interested professionals informed, respond to research requests, and conduct major research projects. This report provides information on the contents of the HSR and is an update of the 2000 publication *Health Status Registry, Congenital Anomalies – Genetic Defects – Selected Disabilities, British Columbia to 1998.*

The report outlines the history of the Health Status Registry, and then provides information on the Registry's objectives, confidentiality, registration criteria, diagnostic coding, and data collection. A guide to data interpretation and information about the HSR reporting sources completes the general information section of the report. These reporting sources represent the "data capture" points used for information on congenital anomalies, other genetic conditions, and selected disabilities and handicapping conditions. Ascertainment of registrable cases is dependent upon complete and timely reporting by appropriate sources. Counts of diagnoses by source for 1996 to 2000 are provided in a table at the end of this section.

The next sections of this report provide information on congenital anomalies, starting with an overview at the provincial level. Tables and graphs show trends in the birth incidence rates of selected congenital anomalies over the last decade. This is followed by information on congenital anomalies at the sub provincial level. The Ministries of Health Planning and Health Services divide the province into six health authorities (HA). Each HA consists of three or four health service delivery areas (HSDAs), which are, in turn, comprised of local health areas (LHAs). Assignment of HSR cases to these geographic areas is based on the mother's address at the time she gave birth. A series of tables provides the incidence of congenital anomalies for single years of birth for each HA and HSDA. Then several years of data are combined in tables showing counts and rates of selected congenital anomaly categories across the areas. The information on congenital anomalies concludes with tables and maps providing statistics by local health area.

The last two sections of the report provide information on "other" genetic conditions and selected disabilities and handicaps as of year-end 2000. Reporting of genetic conditions is not age limited; so these counts are shown for all age groups in the provincial population. Prevalence counts for selected disabilities and handicapping conditions are presented for five age groupings in the provincial child population. Because the purpose of these sections is to monitor where people with disabilities are currently living, all prevalence information is presented by HA and HSDA based upon last known residence address. The report concludes with an appendix listing the diagnostic categories and codes used in the statistical sections of the report, and tables providing birth defects monitoring information for the last three years.

The British Columbia Vital Statistics Agency gratefully acknowledges the input and financial support of the British Columbia Ministry of Children and Family Development.

History of the Health Status Registry

In 1948, federal government grants were offered to all provinces to establish programs for the prevention, control, and treatment of crippling conditions in children. In British Columbia, the grant was used to determine the number and location of crippled children, the types of crippling diseases, and the availability of treatment facilities. A survey conducted under the auspices of the British Columbia Medical Association was sent to all physicians in the province. The response, however, was very poor. As an alternative, surveys were completed based upon a review of all provincial hospital admission records for 1948 and 1949. Surveys were also sent to public health nurses in the Provincial Public Health Districts.

The completed surveys were sent to the Division of Vital Statistics for tabulation. The survey results found 20,000 crippled children and minimal treatment facilities. When preliminary results indicated that most children were not receiving treatment early enough for maximum benefits, Vital Statistics revised the Physician's Notice of Birth to collect information on abnormalities at birth.

In 1952, the *Crippled Children's Registry* was established under the Division of Vital Statistics in the Ministry of Health and Welfare in order to collect and collate data on crippled children, to assist in the organization of services for these children, and to refer crippled children to appropriate treatment facilities. The criteria for registration were that the individual be less than 21 years of age with a disability severe enough to interfere with normal living, obtaining an education, and earning a livelihood.

In addition to collecting data, this voluntary registry conducted medical examinations to register new cases and reassess children already registered and to refer children to appropriate treatment facilities. Information was provided by Public Health Districts to ensure that cases in their catchment areas received adequate care. The Registry also assisted in the development of services for the handicapped and as volunteer and government organizations were organized, they joined private physicians and treatment and rehabilitation facilities as reporting sources. Mental health centres were also added as reporting sources. The Registry's name was changed to the *Handicapped Children's Registry* in 1957. At this time, there were less than 12,000 cases registered.

In response to the thalidomide disaster in 1960, the age limit of 21 was removed and the name was changed to the *Registry for Handicapped Children and Adults*. The criteria for registration were also expanded to include all familial conditions and congenital malformations. During this decade, more reporting sources were added, including UBC Medical Genetics, death and stillbirth registrations, obstetrical discharge summaries, the Cancer Registry, and hospital admissions/separations for children with congenital anomalies who were less than seven years old. A study to assess the results of treatment and rehabilitation was initiated through the Public Health School Programs. The "7 and 14 year Follow-Up Study" provided information on children between these ages and continued for ten years. During the 1960s the Registry's focus began to change and it became a more passive data repository. By 1968 there were 36, 000 cases in the Registry.

In 1975, the Registry's name was changed to the *Health Surveillance Registry* as risk registers for amniocentesis, rubella, hyaline membrane disease, and fetal alcohol spectrum disorder were added. The Registry's objectives were to provide a reliable basis for estimating the prevalence, incidence, and distribution of specific conditions by ascertaining, recording, and classifying handicapping conditions, congenital anomalies, and genetic defects in the population of British Columbia, to assist health services and physicians in the ascertainment, diagnosis, monitoring, and management of such conditions, and to assist medical and genetic research based on the data by undertaking statistical analysis of the data collected. There were approximately 55,000 cases in the Registry in 1973, and almost 100,000 by the end of 1978, largely as a result of an increase in reporting sources.

In 1980, the Cancer Registry, previously part of the Health Surveillance Registry, moved to the Cancer Control Agency of British Columbia. At this time, there were 68 active reporting sources for the HSR and about 108,000 cases. The Registry maintained a low profile during the 1980s amid the provincial government's downsizing and "privatization". By 1989 the Registry had grown to 195,000 cases and more than 80 reporting sources. Beginning in 1975 the HSR Annual Report was replaced by summary tables presented in the Division of Vital Statistics Annual Reports.

In the early 1990s an evaluation of the Registry was conducted and a development plan was prepared which provided recommendations on data collection and recording, access and security, medical coding systems and consultation needs, and technological requirements. In 1991, the *Royal Commission Report on Health Care and Costs* contained a recommendation that Vital Statistics develop and maintain a registry of individuals with disabilities to assist in the development of long-range plans and to monitor the changing needs of the population. Subsequently, in September 1992, amendments to the *Health Act* established the legislative mandate and responsibilities for the HSR.

The Registry's current name (Health Status Registry) was acquired in 1992. In order to refocus the Registry's emphasis on children, the criteria for registration of individuals with long-term physical, mental and/or emotional problems was restricted to persons under the age of 20 years old. Registration of persons with genetic conditions, however, was not age limited. By 2000 there were approximately 215,000 records in the Registry.

In 1998 the Registry started to collect information on early terminations of pregnancy due to congenital anomalies, as recommended by medical geneticists and the B.C. Provincial Health Officer (see *A Report on the Health of British Columbians*; Provincial Health Officer's Annual Report, 1997). Currently a formal agreement is being set up with the participating bodies in order to monitor these cases and to establish reporting procedures in accordance with the *Freedom of Information and Protection of Privacy Act* and legislative mandate.

In 2001 the Health Status Registry was accepted as a full member of the International Clearinghouse for Birth Defects Monitoring Systems (ICBDMS). HSR now participates in ICBDMS's international birth defects monitoring activities by submitting quarterly and annual data for residents of British Columbia to the ICBDMS. In 2002 Autism Spectrum Disorder was added to the Health Status Registry.

General Information

HSR Mission, Mandate and General Objectives

The British Columbia Vital Statistics Agency administers section 10 of the Health Act by operating the Health Status Registry. The mission, mandate, and general objectives of the Registry are:

- To record and classify information concerning congenital anomalies, genetic conditions, and selected handicapping conditions of children;
- To assist health care planning and others in the planning and development of appropriate services by providing accurate and reliable data on congenital anomalies, genetic conditions, and chronic handicapping conditions; and
- To undertake statistical analysis of the data collected and to assist medical and genetic research based on this data.

Additional objectives are:

- To keep the public informed by producing timely and accurate statistical-related products, while maintaining the confidentiality of the data;
- To respond to research requests from a wide and varied audience, such as governments, universities, private and public organizations, health-related researchers and planners, and administrators;
- To develop the HSR as a useful tool that will be utilized by health care and social service systems.

Confidentiality

Maintenance of the confidentiality of HSR data is essential. Confidentiality of the data is protected by ensuring that all staff involved with HSR records comply with the *Freedom of Information and Protection of Privacy Act*, the *Health Act*, and HSR policies and procedures. The *Freedom of Information and Protection of Privacy Act* states that disclosure of personal information is an unreasonable invasion of a personal privacy if the information relates to a medical, psychiatric, or psychological history, diagnosis, condition, treatment, or evaluation. The *Health Act* specifies that persons acting on behalf of the Health Status Registry must not communicate personal identifying information to persons who are not acting on behalf of the Registry except to the extent necessary for recording and classifying information concerning congenital anomalies, genetic conditions, or chronic handicapping conditions. HSR policies and procedures require staff to get prior authorization from the CEO/Director of the B.C. Vital Statistics Agency before contacting a registered individual or their physician. Registry staff may contact reporting sources concerning registered individuals to clarify information received from the source or to request additional information about the diagnosis or treatment.

Confidentiality is also considered when personal identifiers are not involved. The content of statistical tables is reviewed to ensure small numbers do not allow identification of specific individuals or institutions, and approval for release by the CEO/Director of the B.C. Vital Statistics Agency or the Manager of Information and Resource Management Branch is required. The CEO/ Director of the B.C. Vital Statistics Agency may also authorize the release of records without personal identifiers. The researcher must first submit a copy of the research proposal and then sign an agreement specifying that the data supplied will only be used for the approved project and that all files will be destroyed upon completion of the project. Data elements that are not personal identifiers but which could allow for the identification of an individual (such as a postal code) are not released.

Criteria for Registration

Since January 1, 1993, the criteria for registration of a case/individual within the HSR is as follows:

- A person who is 19 years of age or less and is diagnosed as having a physical, mental, and/or emotional problem which is likely to have long-term disabling effects, to interfere substantially with education, or to prevent full and open functional employment; or
- A person of any age who is diagnosed as having a genetic condition or congenital anomaly that is not necessarily disabling.

Medical Coding

Reporting sources provide identifying and medical information to the Health Status Registry about individuals known to them who meet the criteria for registration. These individuals may have more than one registrable condition/diagnosis. In addition to coding diagnoses, an etiology code, identifying the probable cause of the disease or condition, is applied. For some cases, a six-digit code based on McKusick's classification system of inherited conditions provides genetic researchers with the specific detail they require to distinguish various genetic conditions and congenital anomalies.

Diagnoses are coded using the World Health Organization's *International Classification of Diseases* (ICD). Coding by HSR staff according to the tenth revision (ICD-10) began in the year 2000, although some reporting sources continued to provide diagnoses using the ninth revision (ICD-9). ICD-10 includes new disease entities and is far more detailed than ICD-9, with approximately twice as many codes. In addition, some groupings of conditions within the classification have changed, and some conditions have been assigned to different parts of the classification than in ICD-9. Although diagnoses from 1999 and earlier years have not been recoded, the categories used for congenital anomalies, other genetic conditions, and disabilities and handicapping conditions presented in this report are based on ICD-10. As a result, some categories presented in this report differ from those shown in earlier reports. More information on the diagnoses used in this report can be found at the beginning of each section, and lists of the ICD-9 and ICD-10 codes used for each category can be found in the appendix.

Data Collection/Updating

The daily operation of the Health Status Registry includes registration of new cases and updating existing cases. This process begins when information is received from reporting sources. Some sources, such as Children's Hospital, UBC and Victoria General Hospital Medical Genetics, provide information electronically, while others provide hard copies. The information is reviewed to ensure that the case meets the criteria for registration and that the affected person lives in the province. After the medical coding is complete, a search determines if this is an initial registration or if the case is already in the Health Status Registry and data entry is done.

Periodic linkage with Vital Statistics' death files ensures that the death "flag" on HSR records is up to date for individuals who died in British Columbia. This allows the Registry to produce tables of still living cases, as well as snapshots of registrable conditions based on years of birth or at particular points in time. Records for individuals born in the province are also linked to the Vital Statistics' birth files so data pertaining to the individual's birth can be added to their HSR record.

Although Fetal Alcohol Spectrum Disorder (FASD) has been included in the Registry since 1975, diagnosis and reporting of this condition have been problematic. Provincial standards and guidelines for assessment and diagnosis of FASD are currently being established in conjunction with medical professionals, clinical pediatricians, and researchers, and it is hoped that, as a result, diagnosis and reporting of FASD will be improved. Cases with FASD are being collected and registered from hospitals and the Asante Centre for FASD.

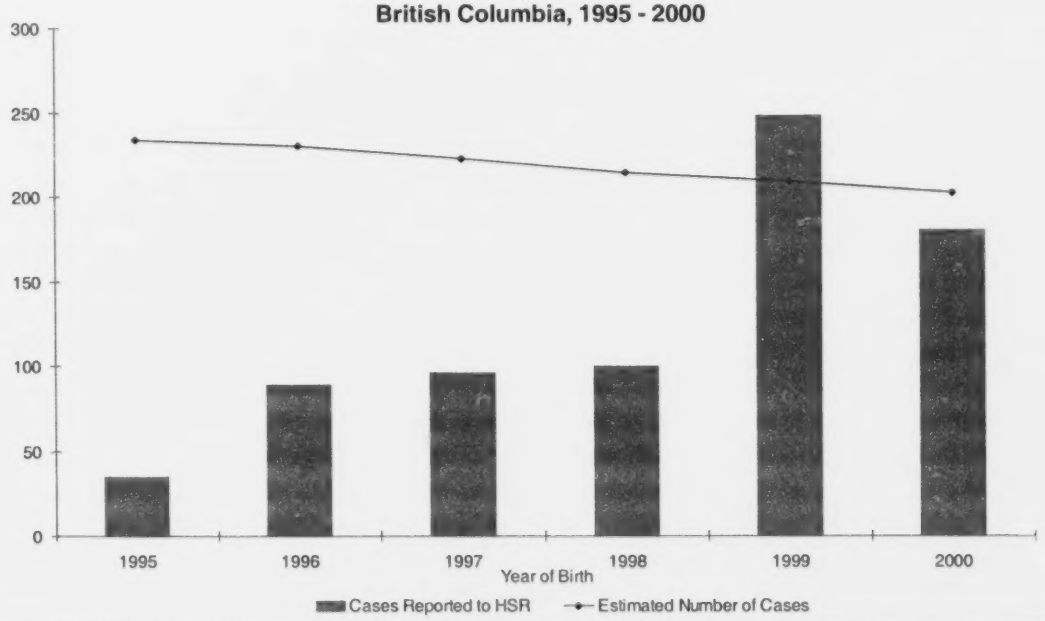
Information Box

Fetal Alcohol Spectrum Disorder

Children born with Fetal Alcohol Spectrum Disorder (FASD) display permanent physical and mental characteristics as a result of consumption of alcohol by the mother during pregnancy. The degree of impairment from FASD can range from mild to severe. The Provincial Health Officer estimates the rate of FASD to be as high as five per thousand live births (Kendall, P .R. W. *Public Health Approach to Alcohol Policy: A Report of the Provincial Health Officer.* Office of the Provincial Health Officer, Ministry of Health Planning, May 2002). The Health Status Registry receives reports of cases of FASD, but provincial reporting and coding have been inconsistent. HSR is working with medical professionals to establish guidelines for the assessment and diagnosis of FASD.

The chart below compares the estimated number of cases of FASD (based on the Provincial Health Officer's estimate of five per thousand live births) with the number of cases reported to the HSR. Only 15.0% of the estimated number of FASD cases were reported to HSR in 1995. This increased to 38.7% in 1996, 43.2% in 1997, and 46.7% in 1998. In 1999 the number of FASD cases reported to HSR (248) exceeded the estimate (209). The number of FASD cases born in 2000 and reported to HSR by year-end (180) was less than the estimate (202); a result that may be attributed to insufficient time for complete ascertainment (diagnosis and reporting).

Fetal Alcohol Spectrum Disorder
British Columbia, 1995 - 2000



Guide to Data Interpretation

There are several points to keep in mind when interpreting the kind of information presented in this report. Incomplete case reporting, variations in reporting over time and by areas, and changes in technology have all had an impact upon the HSR. For many of the diagnostic conditions presented in this report, the data should be interpreted as a summary of what is currently available in the Health Status Registry, not as complete statistics on the birth incidence or prevalence of the condition. The remainder of this section elaborates further upon these points.

Some of the rates presented in this report, such as total diagnoses, are based on counts of infants born with any congenital anomaly. Anomalies can vary widely in their severity and in their impact on the future health of individuals afflicted. Some congenital anomalies may not require ongoing health care management or treatment. Therefore, when assessing rates, consideration should be given to the types of anomalies that are contributing to the rates presented in the table.

Tables in this report may show congenital anomaly rates for single years or at the health service delivery area (HSDA) or local health area (LHA) level. For some conditions or for some of the areas, the rates are based on small counts so yearly fluctuations of a few cases will have a large impact. In addition, the completeness of the data may vary depending on the consistency and compliance of reporting by sources.

The reporting sources determine the degree of completeness of registrations and the currency of data on individual cases. HSR case coverage varies by condition, with good coverage for major birth defects that are readily identifiable at birth, to limited coverage for conditions that are usually not diagnosed until late childhood. The time required for diagnosis and reporting also varies by condition, so recent years may have lower counts than earlier years. The reader should always keep in mind that the numbers in this report represent cases or diagnoses reported to the Health Status Registry, not necessarily the number of cases or conditions occurring in each year.

The time span covered by this report has included several changes of emphasis on the reporting of cases to the HSR, both within government and within reporting sources. During the late 1980s and early 1990s some important reporting sources stopped providing data to the HSR however since the mid 1990s this situation has reversed and reporting has improved. The result of the variable reporting is that long-term trends shown in this document may reflect trends in either the rate of reporting or in the underlying number of cases in the population.

When comparing HSR data for various areas, the reader is also reminded that the utilization of specialized services may not be uniform across all areas. If residents who live close to a specialized service are more likely to use the service than individuals who live much farther away, HSR data will reflect these utilization rates. Thus higher rates in one area might indicate more services, more utilization of services, or differences in the incidence of various conditions compared to other areas.

Changes in prenatal screening have also had an impact on the HSR data. With the advent of amniocentesis and ultrasound, many types of anomalies can be detected early in pregnancy and the mother may choose to terminate the pregnancy. HSR data on congenital anomalies includes cases that meet the criteria for registration as a stillbirth (a minimum of 20 weeks gestation or a weight of at least 500 grams). Although HSR also collects information on medical terminations of pregnancy (a minimum of 14 weeks gestation) due to congenital anomalies (see the section on the history of the Health Status Registry and Information Box for more details), these cases are not included in the data presented in this report.

Finally, unexplained clusters of cases have often been found when examining congenital anomaly rates over time. Many congenital anomalies show large variations from year to year, even when the rates are stable over longer periods of time. Thus it is quite common to see no cases with a specified anomaly for a number of years, followed by several cases in one year, then fewer or none, and then the pattern repeats.

HSR Reporting Sources

Introduction

The Health Status Registry reporting sources represent the "data capture" points used for information on congenital anomalies, other genetic conditions, and selected disabilities and handicapping conditions. Ascertainment of registrable cases is dependent upon complete and timely reporting by appropriate sources. The numbers and kinds of reporting sources have changed considerably over time. Although legislation now requires individuals and organizations to submit data to the Health Status Registry, these data have historically been collected from voluntary reporting sources. When the focus of the HSR changed to emphasize registering disabling or handicapping conditions only when they involved children, a number of reporting sources for non-childhood conditions were discontinued. Reported numbers also decreased from some other sources.

Congenital anomalies are present at birth, but only those that are clinically apparent or manifest severe symptoms are likely to be noted on the Notice of Live Birth or Stillbirth, which is completed and sent to the B.C. Vital Statistics Agency within 48 hours of the birth. Reporting of less evident congenital anomalies, such as pyloric stenosis and many heart defects, depends on contact by the individual with one of the Registry's other reporting sources such as the British Columbia's Children's Hospital, other acute care hospitals, or the HSDA. Large portions of genetic and disabling or handicapping conditions are even less likely to be identified at birth. Cases with genetic conditions are most often reported by UBC and Victoria General Hospital Medical Genetics. For conditions other than those that are present at birth, consistent and complete reporting from sources other than Vital Statistics is essential.

The concept of building case histories through data from multiple reporting sources over an extended period of time is an integral part of this kind of database. Reports on the same individual from several different sources serve to add, update, and correct the existing information, thus improving its accuracy and relevance.

Highlights

Table 1 shows that a total of 78,966 diagnoses were reported by HSR sources from 1996 to 2000.

Data submitted on the hospital admission/discharge abstracts from acute care hospitals throughout the province was the most significant source of HSR data. This information resulted in a total 41,999 reported diagnoses, or more than half (53.2%) of all diagnoses in 1996-2000.

Just over a quarter (27.0%) of the reported diagnoses in 1996-2000 came from British Columbia's Children Hospital. This source reported 21,333 diagnoses.

Vital Statistics' Live Births, Stillbirths, Deaths, and Amendments were the source of approximately one in seven (14.4%) of the diagnoses (11,367 in all).
Most health authorities were also reporting sources in 1996-2000. Health authorities reported a total of 2,751 diagnoses and the Capital Health Region reported almost half (48.0%) of these (1,321 diagnoses).

UBC and Victoria General Hospital Medical Genetics reported 1,340 diagnoses to the HSR in 1996-2000.

Table 1
Number of Diagnoses Provided by Reporting Source
British Columbia, 1996 - 2000

Reporting Source		Number of Diagnoses
001	East Kootenay	40
002	Central Kootenay	49
004	North Okanagan	39
005	South Okanagan	94
006	South Central	68
007	Upper Fraser Valley	94
008	Central Fraser Valley	27
009	Boundary	318
010	Simon Fraser	113
011	Coast Garibaldi	32
013	Central Vancouver Island	237
014	Upper Vancouver Island	33
015	Cariboo	72
016	Skeena	15
017	Peace River	134
018	Northern Interior	41
030	Vancouver Health Department	11
031	Richmond	3
033	North Shore Health Department	10
040	Capital Regional District	1,321
046	UBC Genetics	897
052	Children's Hospital	21,333
059	GF Strong - BC Rehabilitation Society	25
060	Canadian National Institute For The Blind	22
064	Vital Statistics Livebirths	9,263
066	Riverview Hospital	8
071	Cystic Fibrosis Assessment Clinic	3
080	BC Hospital Admission/Discharge Abstracts	41,999
081	Vital Statistics Stillbirths	880
082	Vital Statistics Deaths	1,204
097	BC Women's Hospital - Formerly Grace Hospital	12
101	Victoria Medical Genetics	443
167	Children's Hospital Cystic Fibrosis Clinic	65
169	Vital Statistics Amendments	20
170	Willow Clinic- Formerly Woodlands	23
	All Other Sources	18
	Total	**78,966**

Note: Counts include all unique diagnoses provided by the specified reporting source.

Section 1: Congenital Anomalies

Overview

A congenital anomaly is a defect that is present at birth, and can result from either genetic or environmental factors, or both. Some congenital anomalies require ongoing treatment, and all present a reason for concern. Congenital anomalies are second to perinatal conditions as the leading cause of infant mortality and stillbirths. In British Columbia in 2000, congenital anomalies were responsible for a fifth of all infant deaths (age at death less than one year old) and nearly a tenth of all stillbirths.

Congenital anomalies are caused by gene mutations. These mutations may be inherited from a parent, result from errors during cell division, or result from events during or after conception. Specific drugs, especially when taken in a particular trimester, radiation exposure, certain viruses, and maternal use of alcohol and tobacco have all been identified as factors associated with congenital defects, and recent years have seen increased investigation into the possible effects of other environmental factors. Chromosomal abnormalities also result when meiosis and mitosis are not completed in a normal fashion. If both parents have an abnormal genetic trait their child will carry or manifest the defect. In affected families, the risk of occurrence of congenital defects increases with each child. Certain genetic diseases have also been found to occur more frequently within populations from specific ethnic backgrounds; for example, sickle cell anemia is particularly common among people whose ancestors come from sub-Saharan Africa.

A large range of genetic and environmental factors can produce the congenital anomalies reported in this publication.

- Congenital nervous system defects include anencephaly, neural tube defects, and microcephalus. Although there is a familial tendency in occurrences of many neural tube defects, multiple environmental factors also seem to be involved, particularly with anencephaly. Microcephaly may be the result of a chromosomal abnormality, a virus, or acquired through association with maternal herpes, ischemic insults, or hypothyroidism.
- Congenital anomalies of the heart include some defects associated with syndromes, such as trisomy 21 and Turner's, as well as defects associated with maternal rubella, maternal anticonvulsant medication, or maternal alcohol consumption.
- Factors reported in the literature associated with cleft lip and cleft palate have included genetics, corticosteroids, radiation, hypoxia in utero, maternal viral illness, and dietary influences.
- Chromosomal anomalies are often associated with an advanced maternal age.

The grouping of congenital anomalies used in this report was selected on the basis of similar system development and to provide sufficient numbers to enable analysis. Subgroups were selected to reflect either the most serious conditions (where numbers warranted) or the most common within the group. The congenital anomalies classification categories represent conditions with a wide range in level of severity of impairment, disability, or disfigurement. The complete list of groups and subgroups with ICD codes is provided in Appendix 1.

- Neural tube defects include spina bifida, meningocele, and encephalocele.
- An anomaly of the eye can range in severity from complete agenesis (absence) to aphakia (absence of the lens), coloboma (absence or defect of ocular tissue), or ptosis (drooping) of the lid. Congenital cataract and entropion (inversion of the margin of the eyelid) are among the most frequently reported conditions in this group.

- Defects of the ear, face and neck include for example, anomalies that cause hearing impairment, branchial cleft cyst, webbing of neck, and macrostomia (greatly exaggerated width of the mouth); conditions with a wide range of impairment. The most common conditions in this group, preauricular skin tags or deformities of the pinna, are relatively less disabling.
- Other anomalies of the heart include, for the most part, unspecified heart defects, heart valve anomalies, or dextrocardia (location of the heart in the right hemithorax).
- Other circulatory system anomalies include defects of the aorta, pulmonary arteries, or peripheral circulation, and possible most often, single umbilical artery.
- While agenesis, and more commonly, hypoplasia (incomplete development) of the lung or larynx/ trachea/bronchus atresia represent a small portion of Respiratory System Anomalies, choanal atresia (absence or closure of the openings between the nasal cavity and the nasopharynx) is probably more frequently reported.
- The most frequently reported anomalies of genital organs are undescended testicles and hypospadias.
- Anomalous conditions of the integument such as hemangioma (a benign tumour made of blood vessels), strawberry nevus, or epidermolysis bullosa can be severely disfiguring but the vast majority of conditions reported in this category are ill-defined birthmarks or skin tags.

This section of the report provides an overview of the birth incidence of congenital anomalies in the province since 1970, as well as trends in birth incidence rates of selected congenital anomalies over the last decade. Table 2 shows the number of provincial births with specific congenital anomalies by diagnostic category for 1970-1980 (combined) and for each year from 1981-2000. Table 3 presents the same diagnoses aggregated to show four time periods spanning the last two decades as well as statistically significant trends over the 1981-2000 time period. Next a series of graphs presents three-year moving averages for the incidence of selected congenital anomalies from 1981-2000. Graphs are provided for:

- total diagnoses (all congenital anomalies)
- anencephalus and similar defects
- neural tube defects
- hydrocephalus
- ventricular septal defect
- patent ductus arteriosus
- cleft palate/cleft lip
- congenital dislocation of hip
- foot defects (varus, valgus, and clubfoot)
- finger defects (polydactyly/syndactyly)
- limb reductions
- Down's syndrome

All this information provides a provincial overview prior to looking at the data for congenital anomalies by geographic areas within the province.

The reader is referred to Appendix 1 for the complete list of congenital anomaly categories and codes. Caveats affecting the data can be found in the Guide to Data Interpretation in the General Information section at the beginning of this report.

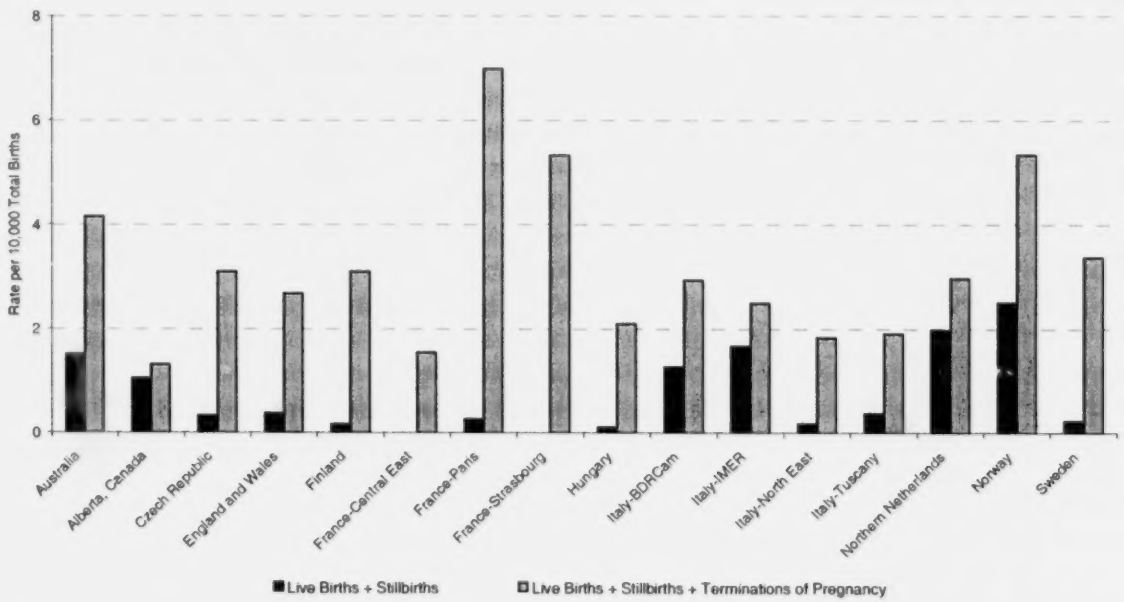
Information Box

Impact of Termination of Pregnancy Data on Congenital Anomaly Rates

Termination of pregnancy is an extremely sensitive issue. British Columbia offers prenatal screening to pregnant women at high risk of having a baby with chromosomal anomalies or other specific genetic disorders either as a result of family history or advanced maternal age. The screening program allows women who have had a child with a fatal degenerative disorder, such as Tay-Sachs disease, to consider a subsequent pregnancy if absence of the disorder can be confirmed. These diagnostic procedures can also precede termination of pregnancy where severe genetic anomalies are detected.

Counts and rates of congenital anomalies based on data that includes terminations of pregnancy as a result of the presence of a specified anomaly are often considerably higher than those based only on total births (live births plus stillbirths). The graph below uses data by selected countries from the International Clearinghouse for Birth Defects Monitoring to illustrate the impact of termination of pregnancy data on anencephaly rates. The Health Status Registry is establishing policies and procedures to collect information on congenital anomalies due to early terminations of pregnancy, as recommended in the Provincial Health Officer's 1997 Annual Report.

Anencephaly Rates



Source: International Clearinghouse for Birth Defects Monitoring System Annual Report 2001 (at www.icbd.org/publications.htm#2000). Australia data is from 1998; data for all other countries is from 1999.

Provincial Highlights

As shown in Table 2, the Health Status Registry recorded 91,793 congenital anomaly diagnoses in 64,794 live births and stillbirths in British Columbia between 1970 and 2000. During this time period, between 1,300 and 2,800 total births (live births plus stillbirths) per year were reported with at least one major or minor congenital anomaly. The average number of diagnoses per case ranged from a low of 1.3 in 1979-1980, 1981, and 1982, to a high of 1.8 in 1998.

More than a quarter (27.5% or 25,281) of the congenital anomaly diagnoses were musculoskeletal deformities; the most common of these were foot defects (varus, valgus, and clubfoot) with 6,393 diagnoses and congenital dislocation of hip with 5,687 diagnoses.

Both anomalies of the heart (12.7%) and anomalies of the genital organs (10.8%) were responsible for more than a tenth each of the congenital anomaly diagnoses reported to the HSR (with 11,625 and 9,875 diagnoses respectively).

Trends in the incidence of selected congenital anomaly rates for total births are presented for 1981 to 2000 in Table 3, Appendix 3, and in Figures 1 through 12. In the graphs, solid lines show the confidence intervals around the rates, while a dotted line indicates the trend over the entire time period. Like the other information presented in this report, the trends are based on cases reported to the Health Status Registry. Thus the data should be interpreted as a summary of what is available in the Registry, not as complete statistics on the birth incidence of the diagnoses. The reader is reminded that the trends represent a combination of actual changes in birth incidence with variations in reporting to the HSR. More details are provided in the Guide to Data Interpretation section of this report.

The rate for total diagnoses of all congenital anomalies averaged 68.91 per 1,000 total births. The rates for total reported diagnoses decreased steadily in the 1980s. This was followed by a plateau, and then steady increases in the mid and late 1990s. There was no statistically significant overall increase or decrease in the rates of total reported diagnoses over the last two decades.

The average incidence rates for the subcategories of reported congenital anomalies are low. Congenital dislocation of hip, with a rate of less than five per thousand (4.35 per 1,000 total births), had the highest incidence rate. Anencephalus and similar defects, with fewer than three in ten thousand (0.25 per 1,000), had the lowest.

Anencephalus and similar defects, neural tube defects, hydrocephalus, and limb reductions showed statistically significant decreases over the 1981-2000 period. No statistically significant trends were noted for ventricular septal defect, patent ductus arteriosus, varus, vulgus, and clubfoot, and polydactyly and syndactyly. Cleft palate/cleft lip, congenital dislocation of hip, and Down's syndrome showed statistically significant increases. Since the risk of chromosomal anomalies in the baby increases with advancing maternal age, the increase in Down's syndrome might reflect increasing average age of mothers.

Table 2

Congenital Anomalies for Total Births (Live Births and Stillbirths) by Year of Birth
British Columbia, 1970 - 2000

Diagnosis	1970-1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Nervous System Defects	**1,561**	**150**	**150**	**147**	**139**	**136**	**170**	**138**	**145**	**133**	**146**	**128**
anencephalus & similar defects	230	23	21	11	10	16	18	8	15	13	9	8
neural tube defects	476	43	39	41	42	46	59	37	45	61	57	42
hydrocephalus	397	37	30	20	16	22	20	24	24	18	39	23
other nervous system defects	457	47	60	74	71	50	73	68	60	41	41	55
Anomalies of Eye	**775**	**64**	**83**	**41**	**41**	**43**	**54**	**40**	**34**	**35**	**53**	**45**
Anomalies of Ear, Face, Neck	**940**	**99**	**103**	**78**	**71**	**84**	**76**	**67**	**80**	**59**	**66**	**83**
Anomalies of Heart	**3,769**	**361**	**373**	**366**	**312**	**358**	**305**	**319**	**262**	**233**	**338**	**330**
transposition of great vessels	185	21	19	18	12	31	17	16	20	21	17	24
tetralogy of Fallot	207	27	19	18	24	24	18	30	18	21	24	18
ventricular septal defect	1,190	120	122	100	70	94	81	85	60	46	69	98
hypoplastic left heart syndrome	67	14	13	15	13	6	9	13	5	4	15	8
other heart anomalies	2,120	179	200	215	193	203	180	175	159	141	212	182
Other Circulatory System Anomalies	**2,055**	**282**	**312**	**303**	**261**	**303**	**301**	**277**	**181**	**143**	**173**	**175**
patent ductus arteriosus	1,039	145	169	164	149	155	162	114	74	55	76	58
Anomalies of Respiratory System	**521**	**120**	**157**	**141**	**178**	**203**	**203**	**165**	**126**	**63**	**73**	**91**
Cleft Palate/Cleft Lip	**930**	**101**	**107**	**105**	**114**	**107**	**108**	**75**	**101**	**107**	**145**	**129**
Anomalies of Upper Alimentary Tract	**1,726**	**196**	**217**	**107**	**83**	**90**	**82**	**93**	**87**	**59**	**69**	**71**
tracheoesophageal fistula	122	10	17	20	18	11	9	13	11	11	17	13
pyloric stenosis	1,240	115	104	41	39	50	37	44	43	38	32	39
other anomalies of alimentary tract	364	71	96	46	26	29	36	36	33	10	20	19
Other Anomalies of Digestive System	**891**	**87**	**130**	**115**	**95**	**100**	**80**	**91**	**95**	**72**	**68**	**71**
Anomalies of Genital Organs	**3,843**	**455**	**473**	**307**	**272**	**287**	**255**	**246**	**178**	**191**	**176**	**219**
Anomalies of Urinary System	**1,464**	**122**	**114**	**139**	**140**	**145**	**136**	**143**	**153**	**108**	**150**	**165**
renal agenesis	180	20	27	20	21	25	21	23	23	17	19	23
cystic kidney disease	113	17	14	26	20	23	19	22	24	15	18	21
other urinary anomalies	1,171	85	73	93	99	97	96	98	106	76	113	120
Congenital Musculoskeletal Deformities	**9,730**	**1,100**	**1,120**	**784**	**670**	**734**	**657**	**592**	**552**	**511**	**695**	**651**
anomalies of spine	208	13	22	31	17	21	25	24	12	8	6	9
congenital dislocation of hip	1,845	193	169	115	109	130	85	80	91	90	239	209
varus, valgus, clubfoot	3,024	315	297	176	148	147	152	152	111	98	120	117
polydactyly, syndactyly	892	79	85	82	64	61	86	64	77	61	64	64
limb reductions	399	34	37	37	28	35	34	26	37	15	23	34
chondro/ osteo dystrophies	152	18	14	24	13	12	19	17	12	12	13	10
other musculoskeletal deformities	3,210	448	496	319	291	328	256	229	212	227	230	208
Anomalies of the Integument	**1,250**	**174**	**190**	**133**	**127**	**140**	**106**	**113**	**77**	**78**	**69**	**66**
hemangioma and lymphangioma	210	20	17	20	10	20	17	19	12	18	9	17
other anomalies of integument	1,040	154	173	113	117	120	89	94	65	60	60	49
Fetal Alcohol Spectrum Disorder	**161**	**25**	**26**	**17**	**15**	**14**	**10**	**9**	**12**	**10**	**17**	**8**
Chromosomal Anomalies	**725**	**75**	**79**	**99**	**80**	**96**	**85**	**96**	**81**	**92**	**116**	**116**
Down's syndrome	487	44	48	63	45	51	50	54	48	54	66	73
other chromosomal anomalies	238	31	31	36	35	45	35	42	33	38	50	40
Multiple & Multiple System Anomalies	**224**	**29**	**46**	**38**	**47**	**71**	**54**	**26**	**37**	**46**	**49**	**56**
Other and Unspecified Anomalies	**414**	**42**	**42**	**36**	**39**	**32**	**40**	**39**	**40**	**28**	**41**	**48**
Total Diagnoses	**30,979**	**3,482**	**3,722**	**2,956**	**2,684**	**2,943**	**2,722**	**2,529**	**2,241**	**1,968**	**2,444**	**2,452**
Total Cases	**23,851**	**2,711**	**2,770**	**2,057**	**1,846**	**2,024**	**1,832**	**1,702**	**1,532**	**1,369**	**1,667**	**1,668**

Note Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category

Table 2

Congenital Anomalies for Total Births (Live Births and Stillbirths) by Year of Birth British Columbia, 1970 - 2000

Diagnosis	1992	1993	1994	1995	1996	1997	1998	1999	2000	Total 1981-2000	Total 1970-2000
Nervous System Defects	**152**	**126**	**159**	**209**	**200**	**152**	**134**	**143**	**114**	**2,971**	**4,532**
anencephalus & similar defects	11	5	11	12	7	5	4	10	6	223	453
neural tube defects	71	36	38	37	45	27	32	45	22	865	1,341
hydrocephalus	10	18	26	31	25	17	14	25	20	459	856
other nervous system defects	60	67	84	127	122	101	84	63	66	1,414	1,871
Anomalies of Eye	**27**	**36**	**44**	**75**	**57**	**47**	**47**	**49**	**33**	**948**	**1,723**
Anomalies of Ear, Face, Neck	**64**	**48**	**101**	**98**	**118**	**120**	**104**	**109**	**118**	**1,746**	**2,686**
Anomalies of Heart	**297**	**304**	**416**	**533**	**627**	**605**	**608**	**433**	**476**	**7,856**	**11,625**
transposition of great vessels	15	13	13	36	32	34	36	25	29	449	634
tetralogy of Fallot	20	14	13	19	19	17	23	19	20	405	612
ventricular septal defect	73	83	106	116	172	148	142	116	128	2,029	3,219
hypoplastic left heart syndrome	10	8	9	17	16	11	16	11	8	221	288
other heart anomalies	179	186	275	345	388	395	391	262	291	4,751	6,871
Other Circulatory System Anomalies	**171**	**160**	**294**	**370**	**533**	**484**	**453**	**350**	**310**	**5,836**	**7,891**
patent ductus arteriosus	60	56	120	167	273	249	237	193	174	2,850	3,889
Anomalies of Respiratory System	**63**	**56**	**74**	**76**	**111**	**102**	**79**	**92**	**84**	**2,257**	**2,778**
Cleft Palate/Cleft Lip	**117**	**106**	**125**	**99**	**134**	**143**	**141**	**136**	**134**	**2,334**	**3,264**
Anomalies of Upper Alimentary Tract	**71**	**67**	**104**	**118**	**137**	**129**	**93**	**233**	**236**	**2,342**	**4,068**
tracheoesophageal fistula	11	9	20	18	10	18	15	10	8	269	391
pyloric stenosis	41	28	21	30	30	28	26	31	37	854	2,094
other anomalies of alimentary tract	19	30	63	70	97	83	52	192	191	1,219	1,583
Other Anomalies of Digestive System	**83**	**67**	**72**	**105**	**105**	**104**	**111**	**105**	**105**	**1,861**	**2,752**
Anomalies of Genital Organs	**229**	**240**	**345**	**293**	**458**	**364**	**280**	**387**	**377**	**6,032**	**9,875**
Anomalies of Urinary System	**204**	**181**	**168**	**177**	**198**	**195**	**213**	**211**	**199**	**3,261**	**4,725**
renal agenesis	39	18	28	19	25	17	24	31	26	466	646
cystic kidney disease	28	30	18	25	41	27	32	22	36	478	591
other urinary anomalies	137	133	122	133	132	151	157	158	137	2,316	3,487
Congenital Musculoskeletal Deformities	**615**	**567**	**781**	**640**	**1,029**	**947**	**819**	**1,078**	**1,009**	**15,551**	**25,281**
anomalies of spine	15	15	18	12	21	19	18	18	17	341	549
congenital dislocation of hip	198	177	254	137	345	273	214	366	368	3,842	5,687
varus, valgus, clubfoot	125	135	152	134	206	200	149	219	216	3,369	6,393
polydactyly, syndactyly	77	58	65	59	85	79	80	93	103	1,486	2,378
limb reductions	28	17	15	31	35	28	27	22	29	572	971
chondro/ osteo dystrophies	9	19	7	14	16	13	23	14	7	286	438
other musculoskeletal deformities	163	146	270	253	321	334	308	346	269	5,654	8,864
Anomalies of the Integument	**94**	**74**	**192**	**101**	**173**	**166**	**106**	**242**	**240**	**2,661**	**3,911**
hemangioma and lymphangioma	19	9	36	25	44	33	16	45	42	448	658
other anomalies of integument	75	65	156	76	129	133	90	197	198	2,213	3,253
Fetal Alcohol Spectrum Disorder	**12**	**4**	**49**	**35**	**89**	**96**	**100**	**248**	**180**	**976**	**1,137**
Chromosomal Anomalies	**115**	**94**	**123**	**137**	**172**	**177**	**156**	**122**	**146**	**2,257**	**2,982**
Down's syndrome	45	62	60	67	78	90	68	53	74	1,193	1,680
other chromosomal anomalies	68	32	63	70	94	87	88	69	72	1,059	1,297
Multiple & Multiple System Anomalies	**52**	**36**	**70**	**67**	**57**	**68**	**71**	**68**	**65**	**1,053**	**1,277**
Other and Unspecified Anomalies	**31**	**33**	**42**	**70**	**59**	**59**	**60**	**52**	**39**	**872**	**1,286**
Total Diagnoses	**2,397**	**2,199**	**3,159**	**3,203**	**4,257**	**3,958**	**3,575**	**4,058**	**3,865**	**60,814**	**91,793**
Total Cases	**1,680**	**1,542**	**2,069**	**1,875**	**2,696**	**2,412**	**2,023**	**2,829**	**2,639**	**40,943**	**64,794**

Table 3

Trends of Congenital Anomalies Rates for Total Births (Live Birth and Stillbirth) by Year of Birth British Columbia, 1981 - 2000

	1981-1985				1986-1990				1991-1995			
			C.I.				C.I.				C.I.	
Diagnosis	**Total**	**Rate**	**Lower**	**Upper**	**Total**	**Rate**	**Lower**	**Upper**	**Total**	**Rate**	**Lower**	**Upper**
Nervous System Defects	722	3.34	3.09	3.58	732	3.38	3.13	3.62	774	3.33	3.10	3.57
anencephalus & similar defects	81	0.37	0.29	0.46	63	0.29	0.22	0.36	47	0.20	0.14	0.26
neural tube defects	211	0.98	0.84	1.11	259	1.19	1.05	1.34	224	0.96	0.84	1.09
hydrocephalus	125	0.58	0.48	0.68	125	0.58	0.48	0.68	108	0.46	0.38	0.55
other nervous system defects	302	1.40	1.24	1.55	283	1.31	1.15	1.46	393	1.69	1.52	1.86
Anomalies of Eye	**272**	**1.26**	**1.11**	**1.41**	**216**	**1.00**	**0.86**	**1.13**	**227**	**0.98**	**0.85**	**1.10**
Anomalies of Ear, Face, Neck	**435**	**2.01**	**1.82**	**2.20**	**348**	**1.60**	**1.44**	**1.77**	**394**	**1.70**	**1.53**	**1.86**
Anomalies of Heart	**1,770**	**8.18**	**7.80**	**8.56**	**1,457**	**6.72**	**6.37**	**7.06**	**1,880**	**8.09**	**7.72**	**8.46**
transposition of great vessels	101	0.47	0.38	0.56	91	0.42	0.33	0.51	101	0.43	0.35	0.52
tetralogy of Fallot	112	0.52	0.42	0.61	111	0.51	0.42	0.61	84	0.36	0.28	0.44
ventricular septal defect	506	2.34	2.14	2.54	341	1.57	1.41	1.74	476	2.05	1.86	2.23
hypoplastic left heart syndrome	61	0.28	0.21	0.35	46	0.21	0.15	0.27	52	0.22	0.16	0.28
other heart anomalies	990	4.58	4.29	4.86	867	4.00	3.73	4.26	1,167	5.02	4.73	5.31
Other Circulatory System Anomalies	**1,461**	**6.75**	**6.41**	**7.10**	**1,075**	**4.96**	**4.66**	**5.25**	**1,170**	**5.03**	**4.75**	**5.32**
patent ductus arteriosus	782	3.61	3.36	3.87	481	2.22	2.02	2.42	461	1.98	1.80	2.16
Anomalies of Respiratory System	**799**	**3.69**	**3.44**	**3.95**	**630**	**2.91**	**2.68**	**3.13**	**360**	**1.55**	**1.39**	**1.71**
Cleft Palate/Cleft Lip	**534**	**2.47**	**2.26**	**2.68**	**536**	**2.47**	**2.26**	**2.68**	**576**	**2.48**	**2.28**	**2.68**
Anomalies of Upper Alimentary Tract	**693**	**3.20**	**2.96**	**3.44**	**390**	**1.80**	**1.62**	**1.98**	**431**	**1.85**	**1.68**	**2.03**
tracheoesophageal fistula	76	0.35	0.27	0.43	61	0.28	0.21	0.35	71	0.31	0.23	0.38
pyloric stenosis	349	1.61	1.44	1.78	194	0.89	0.77	1.02	159	0.68	0.58	0.79
other anomalies of alimentary tract	268	1.24	1.09	1.39	135	0.62	0.52	0.73	201	0.86	0.75	0.98
Other Anomalies of Digestive System	**527**	**2.44**	**2.23**	**2.64**	**406**	**1.87**	**1.69**	**2.05**	**398**	**1.71**	**1.54**	**1.88**
Anomalies of Genital Organs	**1,794**	**8.29**	**7.91**	**8.68**	**1,046**	**4.82**	**4.53**	**5.12**	**1,326**	**5.71**	**5.40**	**6.01**
Anomalies of Urinary System	**660**	**3.05**	**2.82**	**3.28**	**690**	**3.18**	**2.94**	**3.42**	**895**	**3.85**	**3.60**	**4.10**
renal agenesis	113	0.52	0.43	0.62	103	0.48	0.38	0.57	127	0.55	0.45	0.64
cystic kidney disease	100	0.46	0.37	0.55	98	0.45	0.36	0.54	122	0.52	0.43	0.62
other urinary anomalies	447	2.07	1.87	2.26	489	2.26	2.06	2.45	645	2.78	2.56	2.99
Congenital Musculoskeletal Deformities	**4,408**	**20.38**	**19.77**	**20.98**	**3,007**	**13.87**	**13.37**	**14.36**	**3,254**	**14.00**	**13.52**	**14.48**
anomalies of spine	104	0.48	0.39	0.57	75	0.35	0.27	0.42	69	0.30	0.23	0.37
congenital dislocation of hip	716	3.31	3.07	3.55	585	2.70	2.48	2.92	975	4.20	3.93	4.46
varus, valgus, clubfoot	1,083	5.01	4.71	5.30	633	2.92	2.69	3.15	663	2.85	2.64	3.07
polydactyly, syndactyly	371	1.71	1.54	1.89	352	1.62	1.45	1.79	323	1.39	1.24	1.54
limb reductions	171	0.79	0.67	0.91	135	0.62	0.52	0.73	125	0.54	0.44	0.63
chondro/ osteo dystrophies	81	0.37	0.29	0.46	73	0.34	0.26	0.41	59	0.25	0.19	0.32
other musculoskeletal deformities	1,882	8.70	8.31	9.09	1,154	5.32	5.01	5.63	1,040	4.48	4.20	4.75
Anomalies of the Integument	**764**	**3.53**	**3.28**	**3.78**	**443**	**2.04**	**1.85**	**2.23**	**527**	**2.27**	**2.07**	**2.46**
hemangioma and lymphangioma	87	0.40	0.32	0.49	75	0.35	0.27	0.42	106	0.46	0.37	0.54
other anomalies of integument	677	3.13	2.89	3.37	368	1.70	1.52	1.87	421	1.81	1.64	1.98
Fetal Alcohol Spectrum Disorder	97	0.45	0.36	0.54	58	0.27	0.20	0.34	108	0.46	0.38	0.55
Chromosomal Anomalies	**429**	**1.98**	**1.80**	**2.17**	**470**	**2.17**	**1.97**	**2.36**	**585**	**2.52**	**2.31**	**2.72**
Down's syndrome	251	1.16	1.02	1.30	272	1.25	1.11	1.40	307	1.32	1.17	1.47
other chromosomal anomalies	178	0.82	0.70	0.94	198	0.91	0.79	1.04	273	1.17	1.04	1.31
Multiple & Multiple System Anomalies	**231**	**1.07**	**0.93**	**1.21**	**212**	**0.98**	**0.85**	**1.11**	**281**	**1.21**	**1.07**	**1.35**
Other and Unspecified Anomalies	**191**	**0.88**	**0.76**	**1.01**	**188**	**0.87**	**0.74**	**0.99**	**224**	**0.96**	**0.84**	**1.09**
Total Diagnoses	**15,787**	**72.98**	**71.84**	**74.11**	**11,904**	**54.90**	**53.91**	**55.88**	**13,410**	**57.70**	**56.73**	**58.68**
Total Cases	**11,408**				**8,102**				**8,834**			
Total Births	**216,331**				**216,840**				**232,394**			

Notes: Rates per 1,000 total births
TR - Trends at 5% of significance level, based on three years moving average
↗ indicates a statistically significantly positive (increasing) trend and
↘ indicates a statistically significantly negative (decreasing) trend
C. I. Confidence Interval
Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 3

Trends of Congenital Anomalies Rates for Total Births (Live Birth and Stillbirth) by Year of Birth British Columbia, 1981 - 2000

	1996-2000				1981-2000				
			C.I.				C.I.		
	Total	Rate	Lower	Upper	Total	Rate	Lower	Upper	TR
Nervous System Defects	743	3.43	3.18	3.67	2,971	3.37	3.25	3.49	
anencephalus & similar defects	32	0.15	0.10	0.20	223	0.25	0.22	0.29	↘
neural tube defects	171	0.79	0.67	0.91	865	0.98	0.91	1.05	↘
hydrocephalus	101	0.47	0.37	0.56	459	0.52	0.47	0.57	↘
other nervous system defects	436	2.01	1.82	2.20	1,414	1.60	1.52	1.69	↗
Anomalies of Eye	**233**	**1.07**	**0.94**	**1.21**	**948**	**1.07**	**1.01**	**1.14**	
Anomalies of Ear, Face, Neck	**569**	**2.62**	**2.41**	**2.84**	**1,746**	**1.98**	**1.89**	**2.07**	
Anomalies of Heart	**2,749**	**12.67**	**12.20**	**13.15**	**7,856**	**8.90**	**8.71**	**9.10**	↗
transposition of great vessels	156	0.72	0.61	0.83	449	0.51	0.46	0.56	↗
tetralogy of Fallot	98	0.45	0.36	0.54	405	0.46	0.41	0.50	↘
ventricular septal defect	706	3.25	3.01	3.49	2,029	2.30	2.20	2.40	
hypoplastic left heart syndrome	62	0.29	0.21	0.36	221	0.25	0.22	0.28	
other heart anomalies	1,727	7.96	7.59	8.34	4,751	5.38	5.23	5.54	↗
Other Circulatory System Anomalies	**2,130**	**9.82**	**9.40**	**10.24**	**5,836**	**6.61**	**6.44**	**6.78**	
patent ductus arteriosus	1,126	5.19	4.89	5.49	2,850	3.23	3.11	3.35	
Anomalies of Respiratory System	**468**	**2.16**	**1.96**	**2.35**	**2,257**	**2.56**	**2.45**	**2.66**	↘
Cleft Palate/Cleft Lip	**688**	**3.17**	**2.93**	**3.41**	**2,334**	**2.64**	**2.54**	**2.75**	↗
Anomalies of Upper Alimentary Tract	**828**	**3.82**	**3.56**	**4.08**	**2,342**	**2.65**	**2.55**	**2.76**	
tracheoesophageal fistula	61	0.28	0.21	0.35	269	0.30	0.27	0.34	
pyloric stenosis	152	0.70	0.59	0.81	854	0.97	0.90	1.03	↘
other anomalies of alimentary tract	615	2.84	2.61	3.06	1,219	1.38	1.30	1.46	
Other Anomalies of Digestive System	**530**	**2.44**	**2.24**	**2.65**	**1,861**	**2.11**	**2.01**	**2.20**	
Anomalies of Genital Organs	**1,866**	**8.60**	**8.21**	**8.99**	**6,032**	**6.84**	**6.66**	**7.01**	
Anomalies of Urinary System	**1,016**	**4.68**	**4.40**	**4.97**	**3,261**	**3.70**	**3.57**	**3.82**	↗
renal agenesis	123	0.57	0.47	0.67	466	0.53	0.48	0.58	
cystic kidney disease	158	0.73	0.61	0.84	478	0.54	0.49	0.59	↗
other urinary anomalies	735	3.39	3.14	3.63	2,316	2.62	2.52	2.73	↗
Congenital Musculoskeletal Deformities	**4,882**	**22.51**	**21.88**	**23.14**	**15,551**	**17.62**	**17.35**	**17.90**	
anomalies of spine	93	0.43	0.34	0.52	341	0.39	0.35	0.43	
congenital dislocation of hip	1,566	7.22	6.86	7.58	3,842	4.35	4.22	4.49	↗
varus, valgus, clubfoot	990	4.56	4.28	4.85	3,369	3.82	3.69	3.95	
polydactyly, syndactyly	440	2.03	1.84	2.22	1,486	1.68	1.60	1.77	
limb reductions	141	0.65	0.54	0.76	572	0.65	0.60	0.70	↘
chondro/ osteo dystrophies	73	0.34	0.26	0.41	286	0.32	0.29	0.36	
other musculoskeletal deformities	1,578	7.28	6.92	7.63	5,654	6.41	6.24	6.57	
Anomalies of the Integument	**927**	**4.27**	**4.00**	**4.55**	**2,661**	**3.02**	**2.90**	**3.13**	
hemangioma and lymphangioma	180	0.83	0.71	0.95	448	0.51	0.46	0.55	↗
other anomalies of integument	747	3.44	3.20	3.69	2,213	2.51	2.40	2.61	
Fetal Alcohol Spectrum Disorder	713	3.29	3.05	3.53	976	1.11	1.04	1.18	↗
Chromosomal Anomalies	**773**	**3.56**	**3.31**	**3.82**	**2,257**	**2.56**	**2.45**	**2.66**	↗
Down's syndrome	363	1.67	1.50	1.85	1,193	1.35	1.28	1.43	↗
other chromosomal anomalies	410	1.89	1.71	2.07	1,059	1.20	1.13	1.27	↗
Multiple & Multiple System Anomalies	**329**	**1.52**	**1.35**	**1.68**	**1,053**	**1.19**	**1.12**	**1.27**	↗
Other and Unspecified Anomalies	**269**	**1.24**	**1.09**	**1.39**	**872**	**0.99**	**0.92**	**1.05**	↗
Total Diagnoses	**19,713**	**90.88**	**89.61**	**92.15**	**60,814**	**68.91**	**68.37**	**69.46**	
Total Cases	**12,599**				**40,943**				
	216,905				**882,470**				

Figure 1
Trends of Congenital Anomalies for Total Births
All Congenital Anomalies
British Columbia, 1981 - 2000

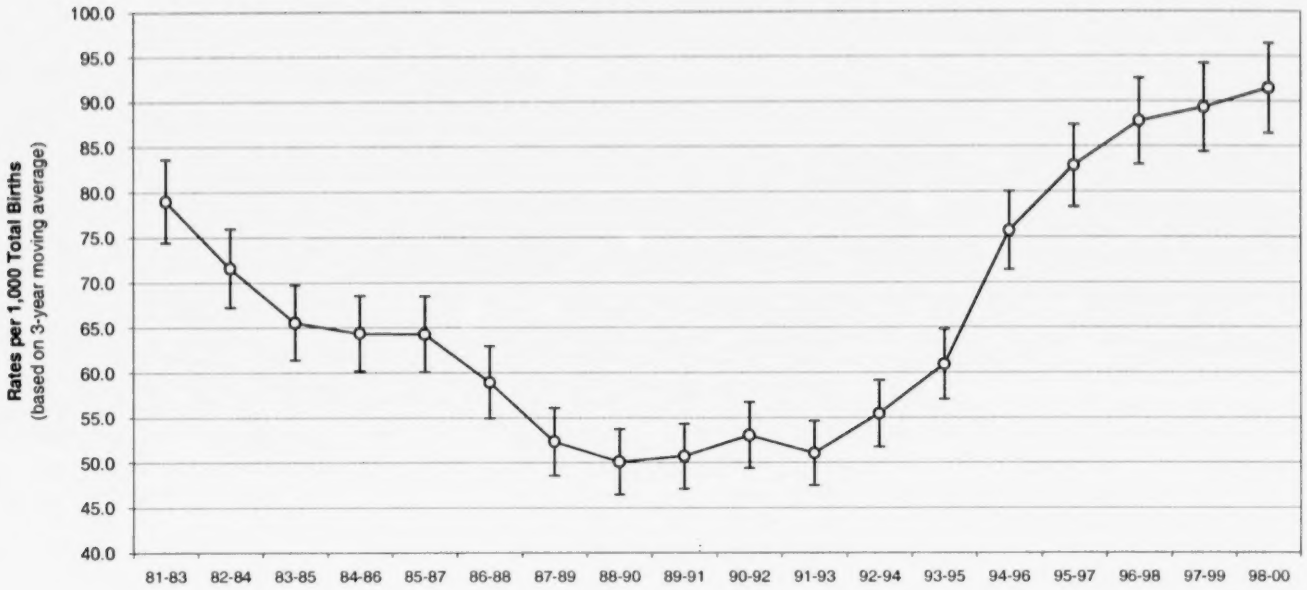
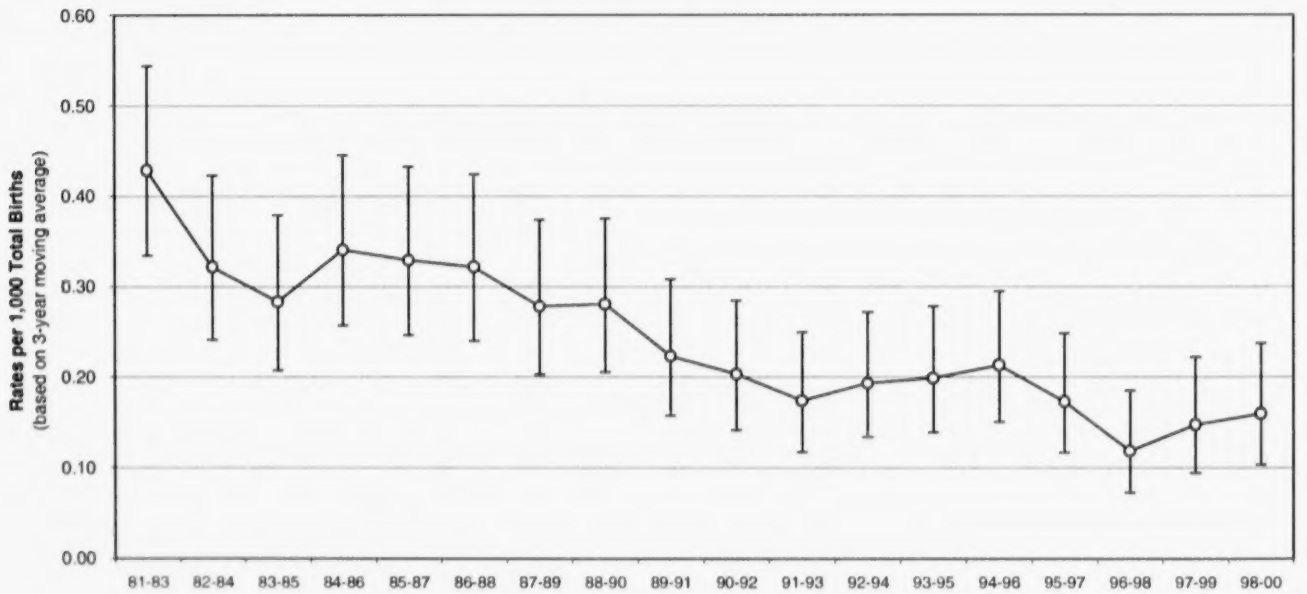


Figure 2
Trends of Congenital Anomalies for Total Births
Anencephalus & Similar Defects
British Columbia, 1981 - 2000



Note: Trend shows the 95% confidence interval with the rate. See Appendix 3 for rates.

Figure 3
Trends of Congenital Anomalies for Total Births
Neural Tube Defects
British Columbia, 1981 - 2000

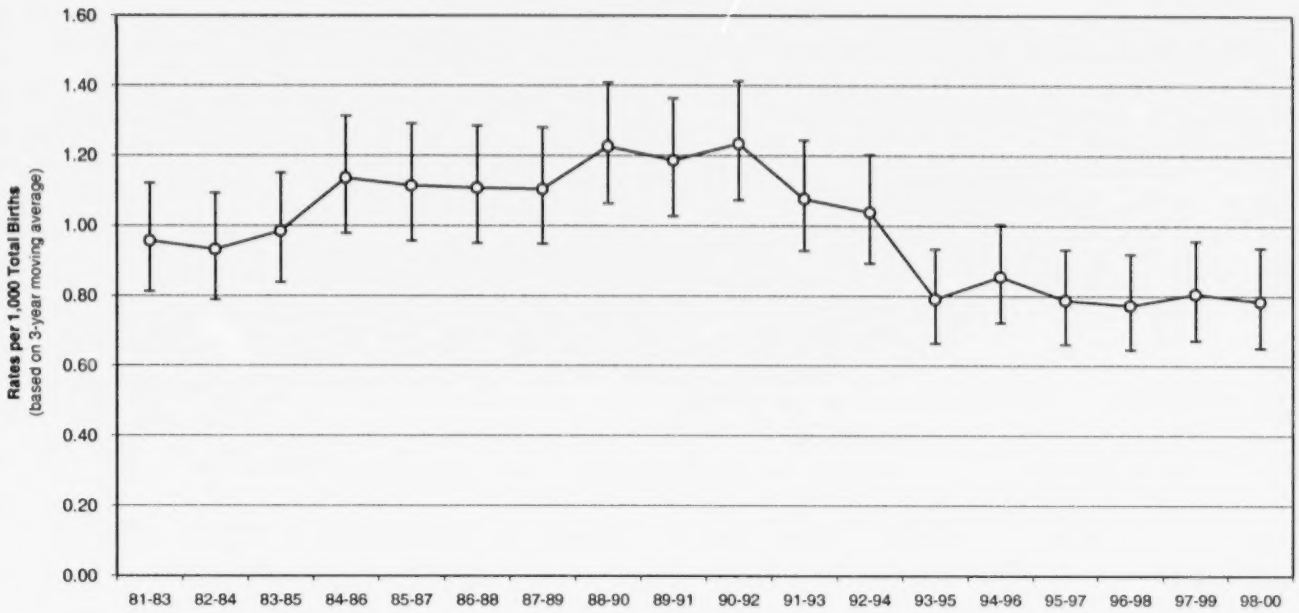
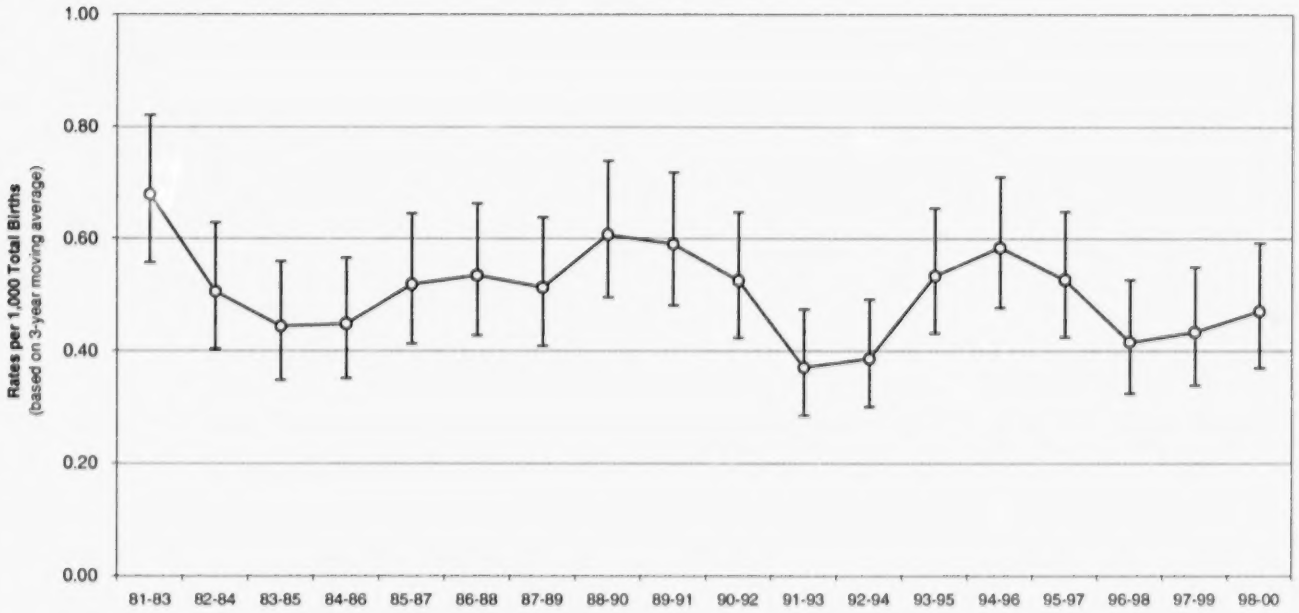


Figure 4
Trends of Congenital Anomalies for Total Births
Hydrocephalus
British Columbia, 1981 - 2000



Note: Trend shows the 95% confidence interval with the rate. See Appendix 3 for rates.

Figure 5
Trends of Congenital Anomalies for Total Births
Ventricular Septal Defect
British Columbia, 1981 - 2000

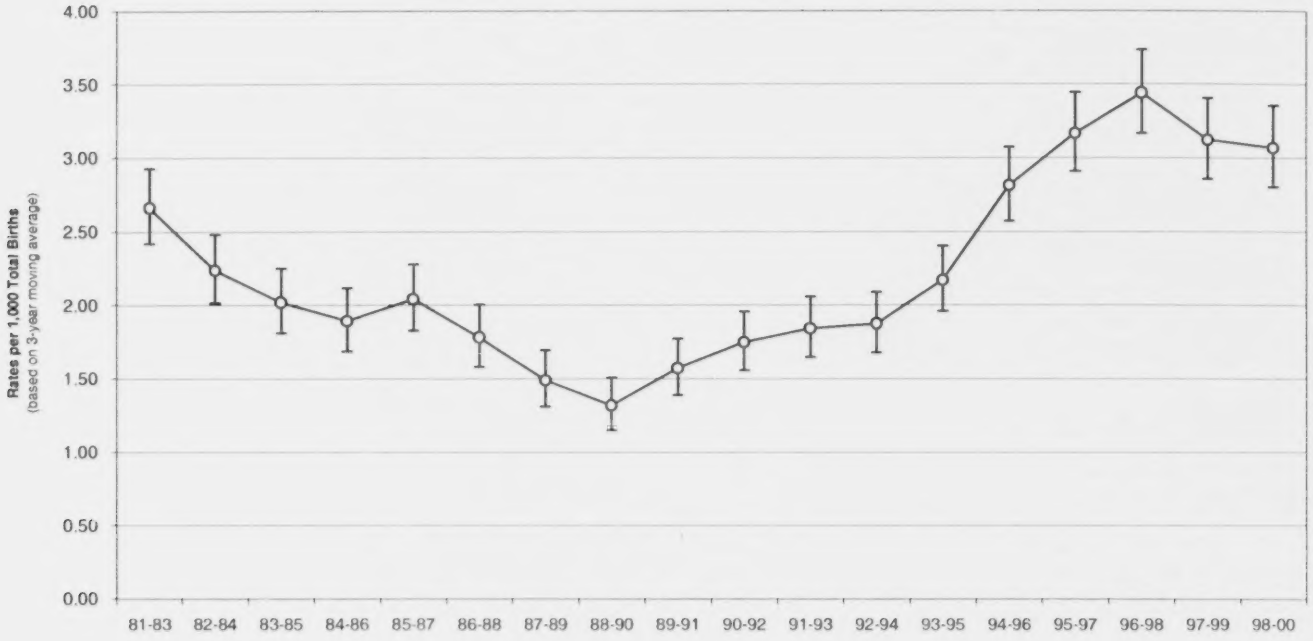
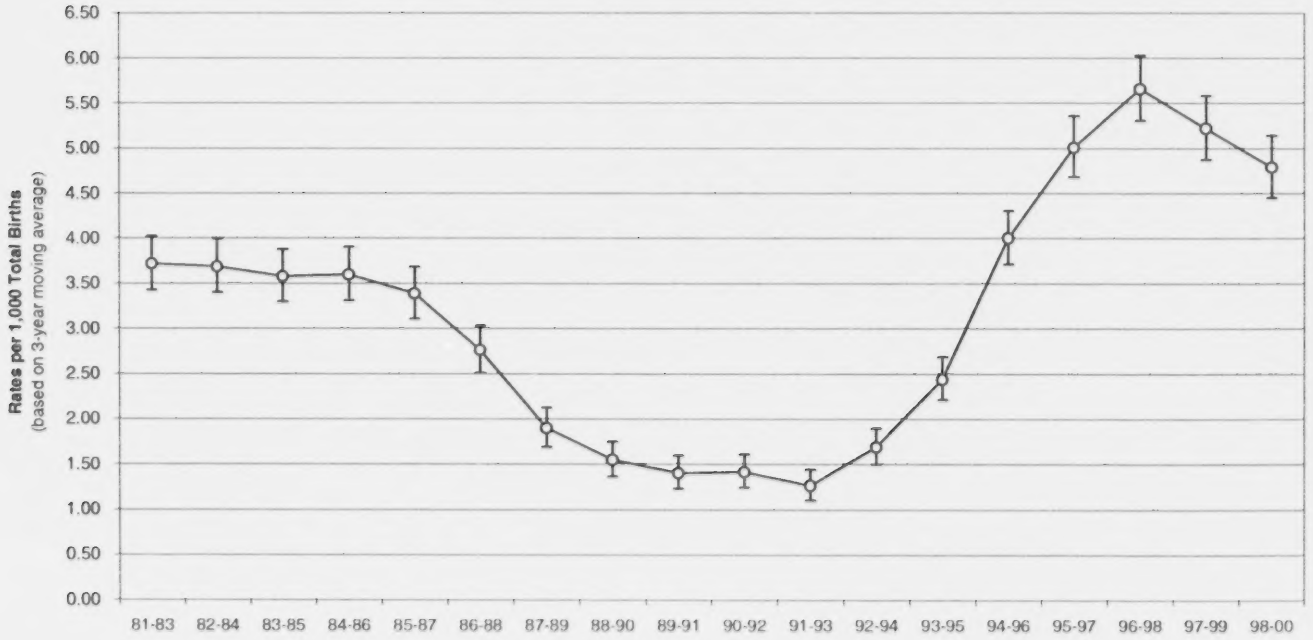


Figure 6
Trends of Congenital Anomalies for Total Births
Patent Ductus Arteriosus
British Columbia, 1981 - 2000



Note: Trend shows the 95% confidence interval with the rate. See Appendix 3 for rates.

Figure 7
Trends of Congenital Anomalies for Total Births
Cleft Palate/Cleft Lip
British Columbia, 1981 - 2000

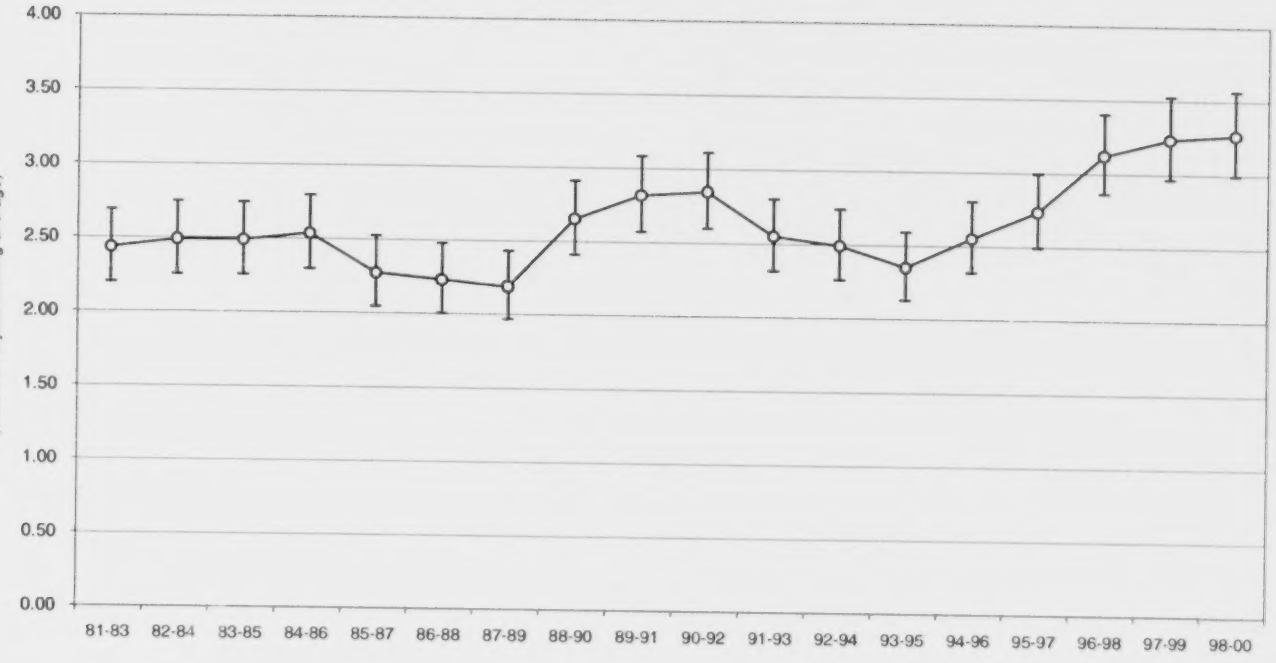
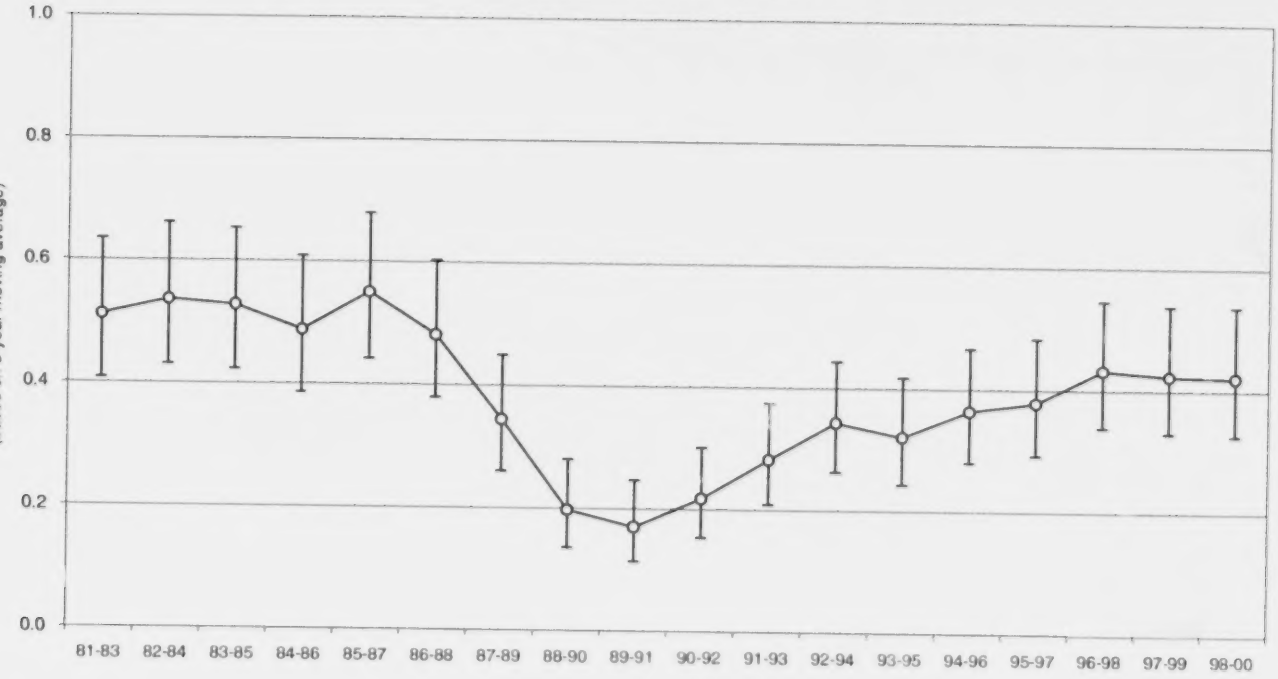


Figure 8
Trends of Congenital Anomalies for Total Births
Congenital Dislocation of Hip
British Columbia, 1981 - 2000



Note: Trend shows the 95% confidence interval with the rate. See Appendix 3 for rates.

Figure 9
Trends of Congenital Anomalies for Total Births
Varus, Valgus, Clubfoot
British Columbia, 1981 - 2000

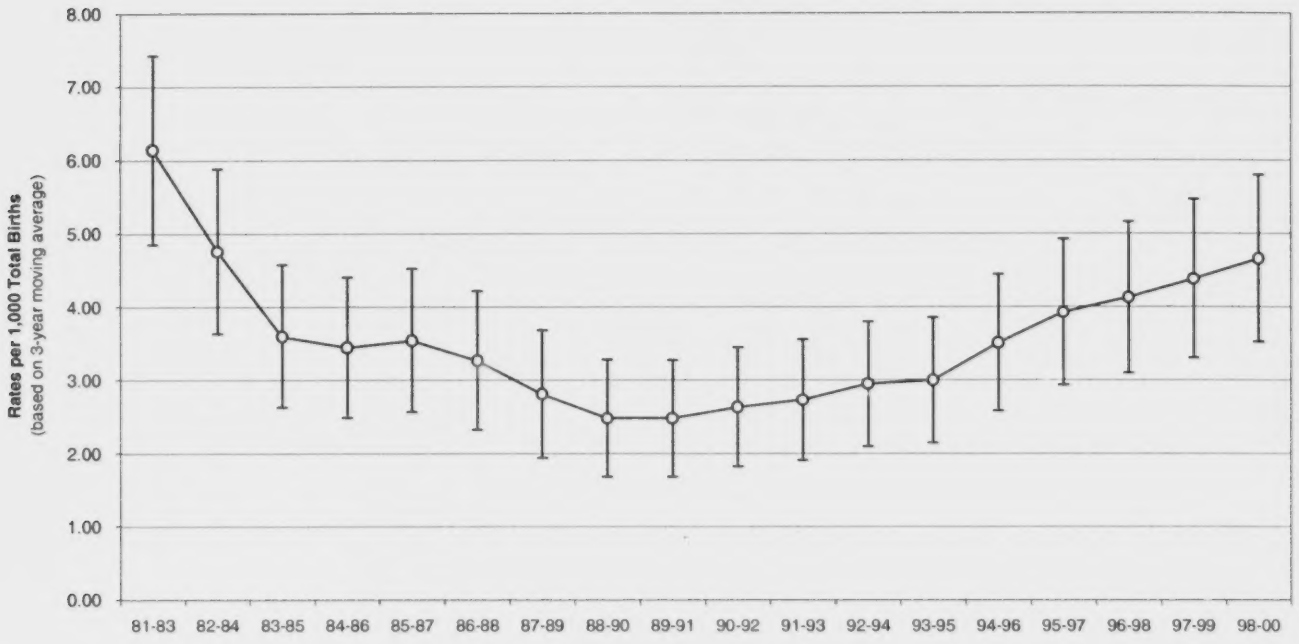
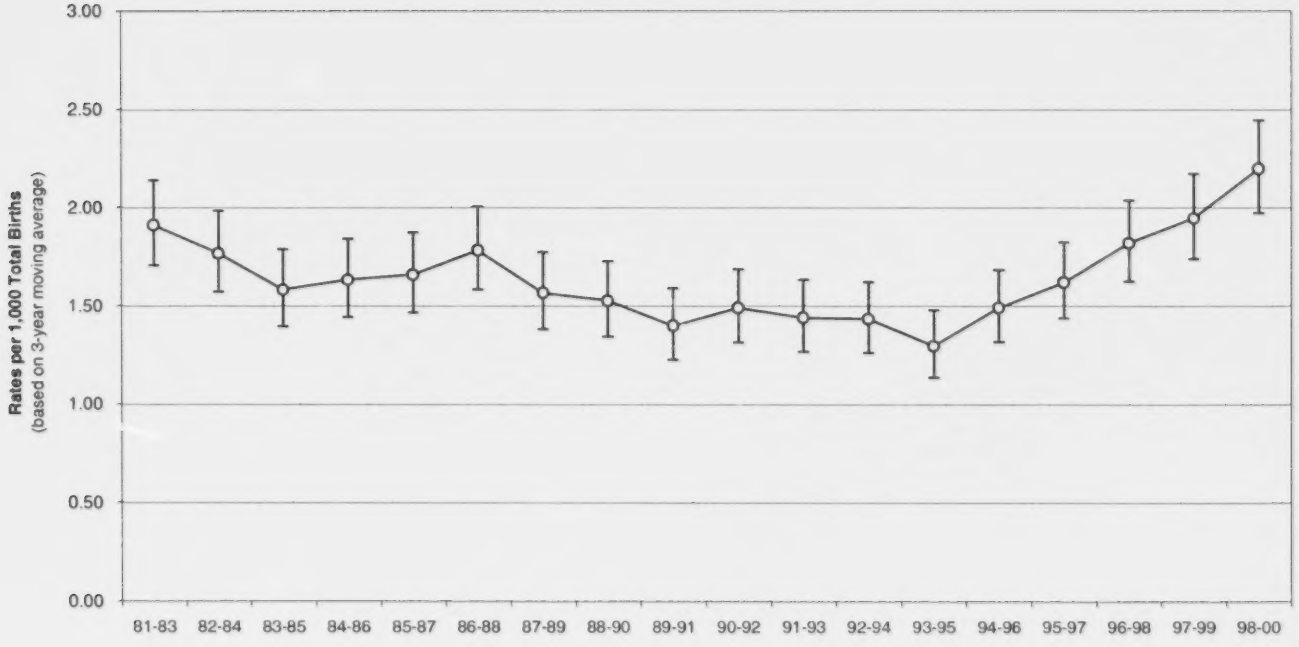


Figure 10
Trends of Congenital Anomalies for Total Births
Polydactyly, Syndactyly
British Columbia, 1981 - 2000



Note: Trend shows the 95% confidence interval with the rate. See Appendix 3 for rates.

Figure 11
Trends of Congenital Anomalies for Total Births
Limb Reductions
British Columbia, 1981 - 2000

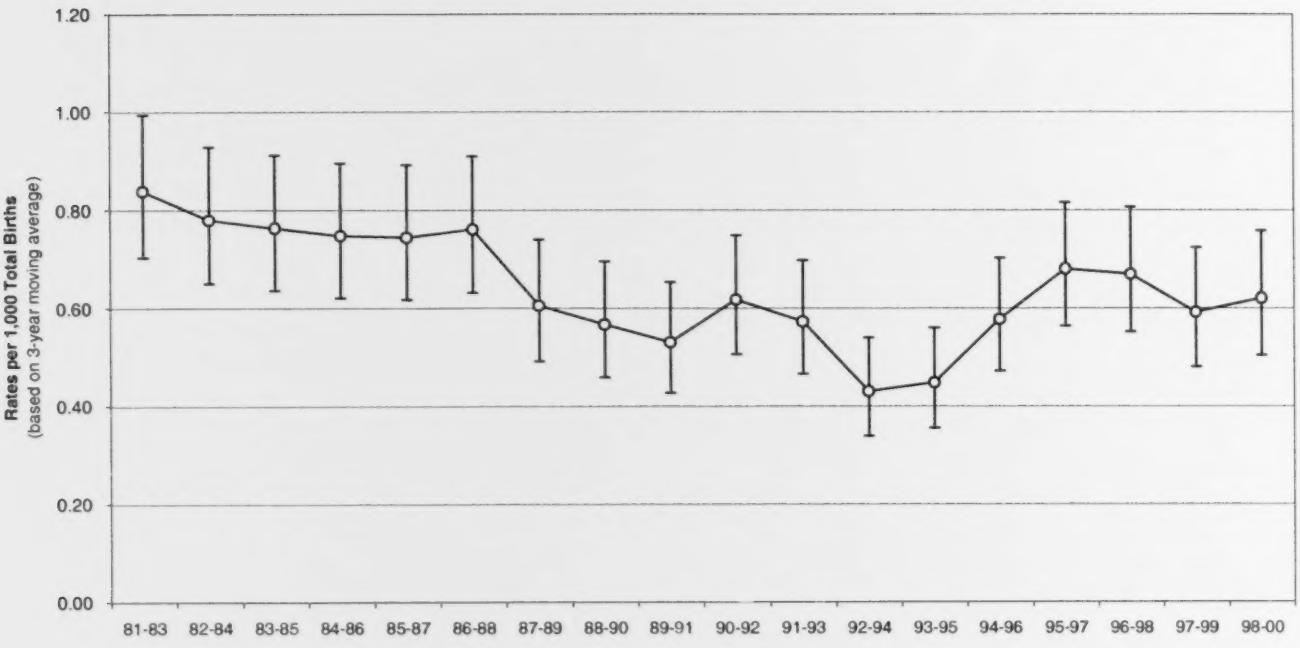
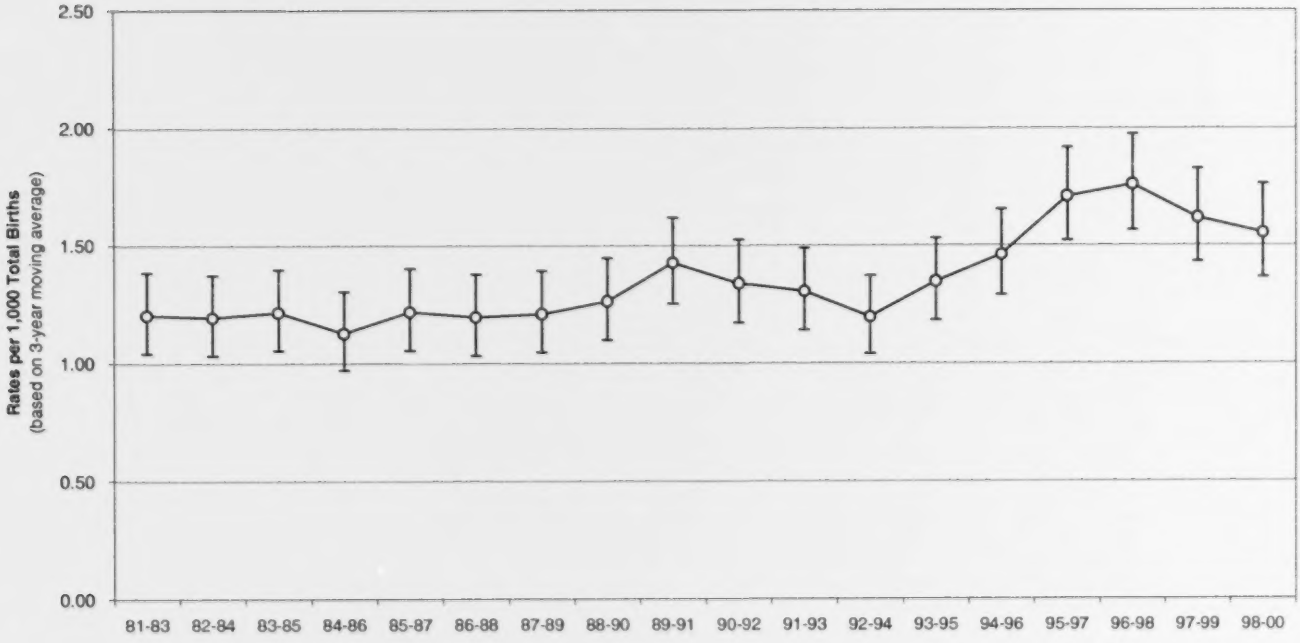


Figure 12
Trends of Congenital Anomalies for Total Births
Down's Syndrome
British Columbia, 1981 - 2000



Note: Trend shows the 95% confidence interval with the rate. See Appendix 3 for rates.

Section 2: Congenital Anomalies by Health Authority and Health Service Delivery Area

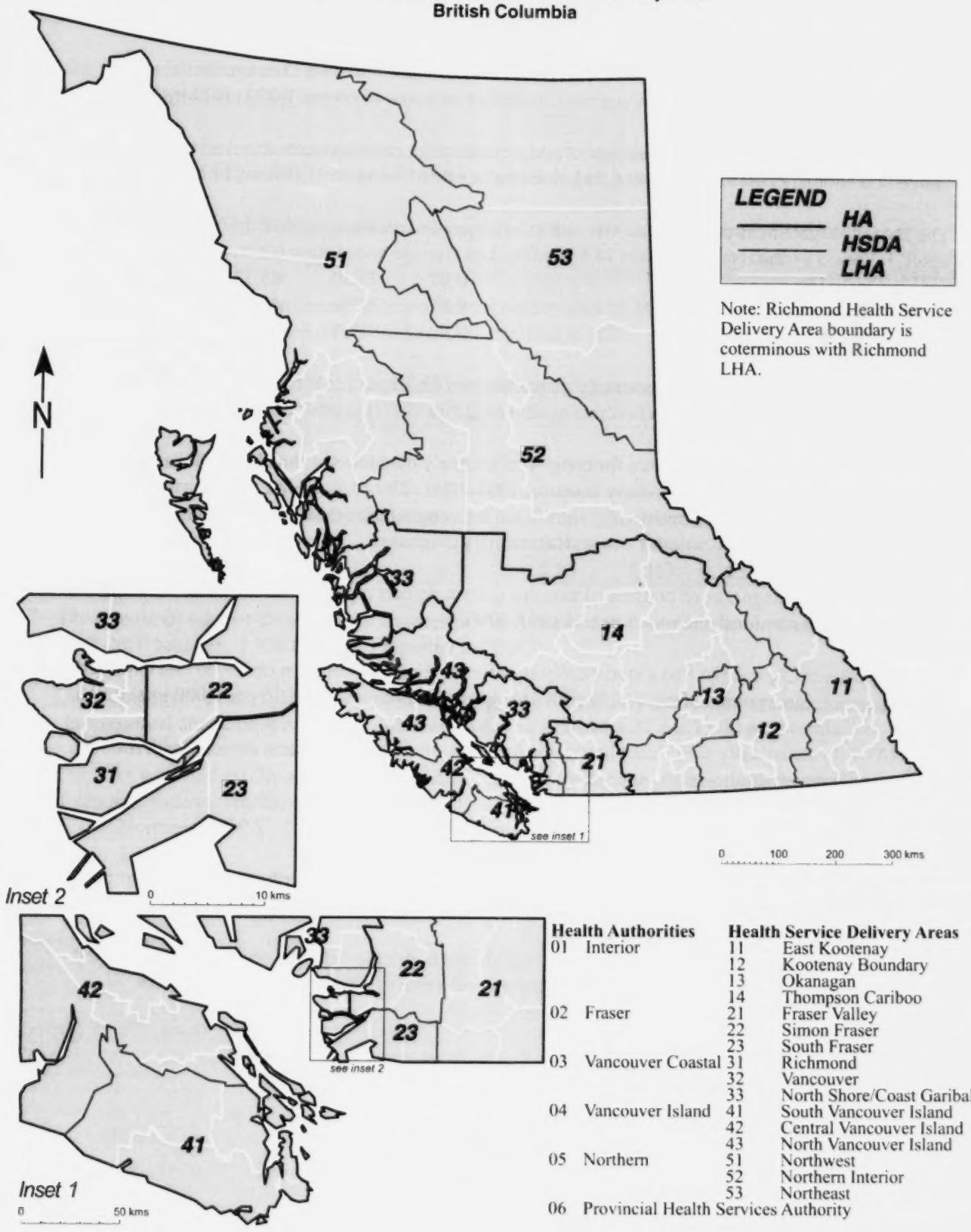
Overview

The previous section of this report provided information at the provincial level about congenital anomalies reported to the Health Status Registry. This section begins the analysis of congenital anomalies at the sub provincial level. British Columbia is divided into six health authorities (HA). Each health authority consists of health service delivery areas (HSDAs), which are, in turn, comprised of local health areas (LHA). Geographic assignment is based on the mother's address at the time she gave birth.

The analysis by geographic areas begins with a series of tables providing the incidence of congenital anomalies for single years of birth for each HA, and then for each HSDA. These tables allow the reader to assess the types and frequencies of congenital anomalies of most concern in a specific sub provincial area. Next, several years of data are combined in tables showing counts and rates of selected congenital anomaly categories across the areas. The information on congenital anomalies concludes with tables and maps providing statistics by local health area.

The reader is again referred to Appendix 1 for the complete list of congenital anomaly categories and codes. Caveats affecting the data can be found in the Guide to Data Interpretation in the General Information section at the beginning of this report.

Figure 13
Health Authority & Health Service Delivery Area
British Columbia



Health Authorities		Health Service Delivery Areas	
01	Interior	11	East Kootenay
		12	Kootenay Boundary
		13	Okanagan
		14	Thompson Cariboo
02	Fraser	21	Fraser Valley
		22	Simon Fraser
		23	South Fraser
03	Vancouver Coastal	31	Richmond
		32	Vancouver
		33	North Shore/Coast Garibaldi
04	Vancouver Island	41	South Vancouver Island
		42	Central Vancouver Island
		43	North Vancouver Island
05	Northern	51	Northwest
		52	Northern Interior
		53	Northeast
06	Provincial Health Services Authority		

Health Authority Highlights

Table 4 shows reported congenital anomaly diagnoses by year of birth for 1991-2000 for the Provincial Health Authority, while Tables 5 to 9 provide the same information by HA.

A total of 21,433 cases born in 1991-2000 were reported to HSR with 33,123 congenital anomaly diagnoses. The provincial rate for congenital anomaly cases was 47.69 per 1,000 total births.

Only Vancouver Coastal HA had a statistically significant high ratio between observed and expected congenital anomaly cases (1.25) with 6,212 cases and a rate of 59.84 per 1,000 total births.

The HAs with statistically significant low ratios for congenital anomaly cases (with the number of cases, followed by the rates) were:

Fraser HA	0.97	7,639	46.37
Interior HA	0.87	2,796	41.29
Vancouver Island HA	0.82	2,698	39.24

The provincial rate for congenital anomaly diagnoses was 73.70 per 1,000 total births for the ten-year period 1991-2000.

The pattern of statistical significance for congenital anomaly diagnoses at the HA level was nearly identical to that for congenital anomaly cases for 1991-2000. The only exceptions occurred in Northern HA, which was not statistically significant for congenital anomalies cases, but had a statistically significant low ratio for congenital anomaly diagnoses.

There were 1,517 diagnoses of congenital nervous system defects reported to HSR; the rate was 3.38 per 1,000 total births for the ten-year period 1991-2000.

Only Vancouver Coastal HA had a statistically significant high ratio between observed and expected congenital nervous system defects (1.29) with 453 diagnoses and a rate of 4.36 per 1,000 total births.

The HAs with statistically significant low ratios for congenital nervous system defects (with the number of diagnoses, followed by the rates) were:

Interior HA	0.78	179	2.64
Vancouver Island HA	0.87	202	2.94

The provincial rate for congenital heart defects was 10.30 per 1,000 total births for the ten-year period 1991-2000 based on 4,629 diagnoses reported to HSR.

Only Vancouver Coastal HA had a statistically significant high ratio between observed and expected congenital heart defects (1.31) with 1,396 diagnoses and a rate of 13.45 per 1,000 total births.

The HAs with statistically significant low ratios for congenital heart defects (with the number of diagnoses, followed by the rates):

Fraser HA	0.89	1,503	9.12
Northern HA	0.89	404	9.20

The provincial rate for cleft palate/cleft lip was 2.81 per 1,000 total births for the ten-year period 1991-2000 based on 1,264 diagnoses reported to HSR.

Only Northern HA had a statistically significant high ratio between observed and expected cleft palate/cleft lip (1.23) with 152 diagnoses and a rate of 3.46 per 1,000 total births.

Only Vancouver Island HA had a statistically significant low ratio between observed and expected cleft palate/cleft lip (0.86) with 166 diagnoses and a rate of 2.41 per 1,000 total births.

The provincial rate for congenital musculoskeletal defects was 18.10 per 1,000 total births for the ten-year period 1991-2000 based on 8,136 diagnoses reported to HSR.

Only Vancouver Coastal HA had a statistically significant high ratio between observed and expected congenital musculoskeletal defects (1.30) with 2,451 diagnoses and a rate of 23.61 per 1,000 total births.

The HAs with statistically significant low ratios for congenital musculoskeletal defects (with the number of diagnoses, followed by the rates) were:

Vancouver Island HA	0.76	940	13.67
Interior HA	0.83	1,017	15.02

The provincial rate for chromosomal anomalies was 3.02 per 1,000 total births for the ten-year period 1991-2000 based on 1,358 diagnoses reported to HSR.

Only Vancouver Coastal HA had a statistically significant high ratio between observed and expected chromosomal anomalies (1.41) with 443 diagnoses and a rate of 4.27 per 1,000 total births.

The HAs with statistically significant low ratios for chromosomal anomalies (with the number of diagnoses, followed by the rates) were:

Northern HA	0.68	90	2.05
Fraser HA	0.88	439	2.66

Table 4

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth British Columbia, 1991-2000

Provincial Total

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	1991-2000 Rate
Nervous System Defects	**128**	**152**	**126**	**159**	**209**	**200**	**152**	**134**	**143**	**114**	**1,517**	**3.38**
anencephalus & similar defects	8	11	5	11	12	7	5	4	10	6	79	0.18
neural tube defects	42	71	36	38	37	45	27	32	45	22	395	0.88
hydrocephalus	23	10	18	26	31	25	17	14	25	20	209	0.47
other nervous system defects	55	60	67	84	127	122	101	84	63	66	829	1.84
Anomalies of Eye	**45**	**27**	**36**	**44**	**75**	**57**	**47**	**47**	**49**	**33**	**460**	**1.02**
Anomalies of Ear, Face, Neck	**83**	**64**	**48**	**101**	**98**	**118**	**120**	**104**	**109**	**118**	**963**	**2.14**
Anomalies of Heart	**330**	**297**	**304**	**416**	**533**	**627**	**605**	**608**	**433**	**476**	**4,629**	**10.30**
transposition of great vessels	24	15	13	13	36	32	34	36	25	29	257	0.57
tetralogy of Fallot	18	20	14	13	19	19	17	23	19	20	182	0.40
ventricular septal defect	98	73	83	106	116	172	148	142	116	128	1,182	2.63
hypoplastic left heart syndrome	8	10	8	9	17	16	11	16	11	8	114	0.25
other heart anomalies	182	179	186	275	345	388	395	391	262	291	2,894	6.44
Other Circulatory System Anomalies	**175**	**171**	**160**	**294**	**370**	**533**	**484**	**453**	**350**	**310**	**3,300**	**7.34**
patent ductus arteriosus	58	60	56	120	167	273	249	237	193	174	1,587	3.53
Anomalies of Respiratory System	**91**	**63**	**56**	**74**	**76**	**111**	**102**	**79**	**92**	**84**	**828**	**1.84**
Cleft Palate/Cleft Lip	**129**	**117**	**106**	**125**	**99**	**134**	**143**	**141**	**136**	**134**	**1,264**	**2.81**
Anomalies of Upper Alimentary Tract	**71**	**71**	**67**	**104**	**118**	**137**	**129**	**93**	**233**	**236**	**1,259**	**2.80**
tracheoesophageal fistula	13	11	9	20	18	10	18	15	10	8	132	0.29
pyloric stenosis	39	41	28	21	30	30	28	26	31	37	311	0.69
other anomalies of alimentary tract	19	19	30	63	70	97	83	52	192	191	816	1.82
Other Anomalies of Digestive System	**71**	**83**	**67**	**72**	**105**	**105**	**104**	**111**	**105**	**105**	**928**	**2.06**
Anomalies of Genital Organs	**219**	**229**	**240**	**345**	**293**	**458**	**364**	**280**	**387**	**377**	**3,192**	**7.10**
Anomalies of Urinary System	**165**	**204**	**181**	**168**	**177**	**198**	**195**	**213**	**211**	**199**	**1,911**	**4.25**
renal agenesis	23	39	18	28	19	25	17	24	31	26	250	0.56
cystic kidney disease	21	28	30	18	25	41	27	32	22	36	280	0.62
other urinary anomalies	120	137	133	122	133	132	151	157	158	137	1,380	3.07
Congenital Musculoskeletal Deformities	**651**	**615**	**567**	**781**	**640**	**1,029**	**947**	**819**	**1,078**	**1,009**	**8,136**	**18.10**
anomalies of spine	9	15	15	18	12	21	19	18	18	17	162	0.36
congenital dislocation of hip	209	198	177	254	137	345	273	214	366	368	2,541	5.65
varus, valgus, clubfoot	117	125	135	152	134	206	200	149	219	216	1,653	3.68
polydactyly, syndactyly	64	77	58	65	59	85	79	80	93	103	763	1.70
limb reductions	34	28	17	15	31	35	28	27	22	29	266	0.59
chondro/ osteo dystrophies	10	9	19	7	14	16	13	23	14	7	132	0.29
other musculoskeletal deformities	208	163	146	270	253	321	334	308	346	269	2,618	5.83
Anomalies of the Integument	**66**	**94**	**74**	**192**	**101**	**173**	**166**	**106**	**242**	**240**	**1,454**	**3.24**
hemangioma and lymphangioma	17	19	9	36	25	44	33	16	45	42	286	0.64
other anomalies of integument	49	75	65	156	76	129	133	90	197	198	1,168	2.60
Fetal Alcohol Spectrum Disorder	**8**	**12**	**4**	**49**	**35**	**89**	**96**	**100**	**248**	**180**	**821**	**1.83**
Chromosomal Anomalies	**116**	**115**	**94**	**123**	**137**	**172**	**177**	**156**	**122**	**146**	**1,358**	**3.02**
Down's syndrome	73	45	62	60	67	78	90	68	53	74	670	1.49
other chromosomal anomalies	40	68	32	63	70	94	87	88	69	72	683	1.52
Multiple & Multiple System Anomalies	**56**	**52**	**36**	**70**	**67**	**57**	**68**	**71**	**68**	**65**	**610**	**1.36**
Other and Unspecified Anomalies	**48**	**31**	**33**	**42**	**70**	**59**	**59**	**60**	**52**	**39**	**493**	**1.10**
Total Diagnoses	**2,452**	**2,397**	**2,199**	**3,159**	**3,203**	**4,257**	**3,958**	**3,575**	**4,058**	**3,865**	**33,123**	**73.70**
(Rate /1,000 total births)	**(53.6)**	**(51.6)**	**(47.6)**	**(67.0)**	**(68.1)**	**(92.1)**	**(88.5)**	**(82.9)**	**(96.5)**	**(94.8)**		
Total Cases	**1,668**	**1,680**	**1,542**	**2,069**	**1,875**	**2,696**	**2,412**	**2,023**	**2,829**	**2,639**	**21,433**	**47.69**
(Rate /1,000 total births)	**(36.5)**	**(36.2)**	**(33.4)**	**(43.9)**	**(39.9)**	**(58.3)**	**(53.9)**	**(46.9)**	**(67.3)**	**(64.7)**		
Total Births	**45,719**	**46,411**	**46,231**	**47,148**	**47,017**	**46,227**	**44,729**	**43,142**	**42,036**	**40,775**	**449,435**	

Notes: Rate per 1,000 Total births (Live births and Stillbirths).
Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000.
Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 5

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth British Columbia, 1991-2000

01 Interior HA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	**14**	**16**	**19**	**18**	**28**	**22**	**14**	**21**	**13**	**14**	**179**	**228.6**	**0.78**	**-**	**2.64**
anencephalus & similar defects	2	-	-	2	1	2	3	-	-	-	10	11.9	0.84		0.15
neural tube defects	6	9	5	2	7	-	2	7	6	-	44	59.5	0.74	-	0.65
hydrocephalus	3	1	4	1	6	5	-	2	1	2	25	31.5	0.79		0.37
other nervous system defects	3	6	10	13	14	15	8	12	6	12	99	124.9	0.79	-	1.46
Anomalies of Eye	**8**	**4**	**8**	**10**	**12**	**6**	**6**	**4**	**10**	**5**	**73**	**69.3**	**1.05**		**1.08**
Anomalies of Ear, Face, Neck	**10**	**15**	**6**	**11**	**15**	**17**	**9**	**14**	**9**	**17**	**123**	**145.1**	**0.85**		**1.82**
Anomalies of Heart	**30**	**30**	**41**	**82**	**84**	**80**	**121**	**60**	**50**	**71**	**649**	**697.4**	**0.93**		**9.58**
transposition of great vessels	2	1	1	1	4	1	9	-	4	2	25	38.7	0.65	-	0.37
tetralogy of Fallot	3	3	-	2	5	3	3	2	-	4	25	27.4	0.91		0.37
ventricular septal defect	9	7	8	20	20	29	29	16	15	16	169	178.1	0.95		2.50
hypoplastic left heart syndrome	1	-	1	2	3	1	2	3	1	1	15	17.2	0.87		0.22
other heart anomalies	15	19	31	57	52	46	78	39	30	48	415	436.0	0.95		6.13
Other Circulatory System Anomalies	**27**	**20**	**21**	**50**	**51**	**67**	**71**	**54**	**62**	**48**	**471**	**497.2**	**0.95**		**6.96**
patent ductus arteriosus	10	6	7	21	19	38	36	26	35	24	222	239.1	0.93		3.28
Anomalies of Respiratory System	**12**	**10**	**8**	**17**	**12**	**16**	**10**	**7**	**4**	**17**	**113**	**124.8**	**0.91**		**1.67**
Cleft Palate/Cleft Lip	**18**	**18**	**21**	**16**	**10**	**29**	**23**	**12**	**14**	**29**	**190**	**190.4**	**1.00**		**2.81**
Anomalies of Upper Alimentary Tract	**5**	**3**	**7**	**16**	**22**	**20**	**11**	**10**	**24**	**33**	**151**	**189.7**	**0.80**	**-**	**2.23**
tracheoesophageal fistula	-	2	2	1	4	1	2	2	1	1	16	19.9	0.80		0.24
pyloric stenosis	3	-	-	3	-	6	4	3	2	5	26	46.9	0.55	-	0.38
other anomalies of alimentary tract	2	1	5	12	18	13	5	5	21	27	109	122.9	0.89		1.61
Other Anomalies of Digestive System	**7**	**11**	**17**	**9**	**17**	**10**	**21**	**14**	**17**	**11**	**134**	**139.8**	**0.96**		**1.98**
Anomalies of Genital Organs	**38**	**34**	**42**	**47**	**42**	**64**	**41**	**46**	**57**	**72**	**483**	**480.9**	**1.00**		**7.13**
Anomalies of Urinary System	**8**	**12**	**17**	**17**	**34**	**28**	**18**	**25**	**24**	**22**	**205**	**287.9**	**0.71**	**-**	**3.03**
renal agenesis	1	1	2	4	6	3	-	4	3	-	24	37.7	0.64	-	0.35
cystic kidney disease	2	1	2	3	4	7	2	2	2	6	31	42.2	0.73		0.46
other urinary anomalies	5	10	13	10	24	18	16	19	19	16	150	207.9	0.72	-	2.22
Congenital Musculoskeletal Deformities	**73**	**82**	**67**	**111**	**101**	**134**	**85**	**95**	**138**	**131**	**1,017**	**1,225.8**	**0.83**	**-**	**15.02**
anomalies of spine	-	3	1	2	2	4	3	1	1	2	19	24.4	0.78		0.28
congenital dislocation of hip	23	20	16	20	20	32	22	19	30	28	230	382.8	0.60	-	3.40
varus, valgus, clubfoot	14	16	16	24	23	15	21	22	39	43	233	249.1	0.94		3.44
polydactyly, syndactyly	11	17	6	14	9	9	9	10	16	19	120	115.0	1.04		1.77
limb reductions	4	8	-	5	6	12	3	6	1	2	47	40.1	1.17		0.69
chondro/ osteo dystrophies	1	1	2	1	1	1	-	1	1	-	9	19.9	0.45	-	0.13
other musculoskeletal deformities	20	17	26	45	40	61	27	36	50	37	359	394.4	0.91		5.30
Anomalies of the Integument	**3**	**15**	**6**	**31**	**19**	**28**	**23**	**16**	**39**	**56**	**236**	**219.1**	**1.08**		**3.49**
hemangioma and lymphangioma	2	6	2	5	5	7	8	3	9	11	58	43.1	1.35	+	0.86
other anomalies of integument	1	9	4	26	14	21	15	13	30	45	178	176.0	1.01		2.63
Fetal Alcohol Spectrum Disorder	**-**	**1**	**-**	**8**	**4**	**12**	**12**	**10**	**5**	**9**	**61**	**123.7**	**0.49**	**-**	**0.90**
Chromosomal Anomalies	**17**	**20**	**10**	**22**	**18**	**26**	**28**	**16**	**10**	**16**	**183**	**204.6**	**0.89**		**2.70**
Down's syndrome	12	10	10	11	9	7	15	6	8	9	97	100.9	0.96		1.43
other chromosomal anomalies	4	10	-	11	9	19	13	10	2	7	85	102.9	0.83		1.26
Multiple & Multiple System Anomalies	**8**	**6**	**4**	**16**	**6**	**10**	**9**	**6**	**3**	**11**	**79**	**91.9**	**0.86**		**1.17**
Other and Unspecified Anomalies	**6**	**1**	**8**	**2**	**5**	**7**	**8**	**6**	**9**	**8**	**60**	**74.3**	**0.81**		**0.89**
Total Diagnoses	**284**	**298**	**302**	**483**	**480**	**576**	**510**	**416**	**488**	**570**	**4,407**	**4,990.5**	**0.88**	**-**	**65.08**
(Rate /1,000 total births)	**(40.6)**	**(42.8)**	**(42.6)**	**(67.1)**	**(66.3)**	**(82.9)**	**(75.7)**	**(64.3)**	**(78.2)**	**(97.6)**					
Total Cases	**180**	**218**	**194**	**302**	**279**	**342**	**303**	**245**	**350**	**383**	**2,796**	**3,229.2**	**0.87**	**-**	**41.29**
(Rate /1,000 total births)	**(25.7)**	**(31.3)**	**(27.4)**	**(41.9)**	**(38.6)**	**(49.2)**	**(45.0)**	**(37.9)**	**(56.1)**	**(65.5)**					
Total Births	**7,000**	**6,955**	**7,090**	**7,202**	**7,235**	**6,945**	**6,734**	**6,469**	**6,242**	**5,843**	**67,715**				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 6

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth British Columbia, 1991-2000

02 Fraser HA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	38	65	48	54	69	81	65	37	38	20	515	556.0	0.93		3.13
anencephalus & similar defects	2	6	3	6	8	4	-	1	3	2	35	29.0	1.21		0.21
neural tube defects	10	31	14	12	14	26	10	9	15	1	142	144.8	0.98		0.86
hydrocephalus	6	5	7	10	8	5	6	3	5	4	59	76.6	0.77	-	0.36
other nervous system defects	20	23	24	26	39	45	49	24	15	13	278	303.9	0.91		1.69
Anomalies of Eye	14	9	11	10	17	17	15	21	6	12	132	168.6	0.78	-	0.80
Anomalies of Ear, Face, Neck	29	22	20	31	36	41	55	33	38	39	344	353.0	0.97		2.09
Anomalies of Heart	141	129	89	119	185	229	177	194	120	120	1,503	1,696.7	0.89	-	9.12
transposition of great vessels	13	6	-	5	14	15	11	17	15	7	103	94.2	1.09		0.63
tetralogy of Fallot	9	8	4	7	4	7	6	6	4	4	59	66.7	0.88		0.36
ventricular septal defect	38	30	28	23	35	53	48	44	30	34	363	433.3	0.84	-	2.20
hypoplastic left heart syndrome	3	6	3	2	5	8	1	4	2	1	35	41.8	0.84		0.21
other heart anomalies	78	79	54	82	127	146	111	123	69	74	943	1,060.8	0.89	-	5.72
Other Circulatory System Anomalies	61	69	62	83	137	165	139	127	107	65	1,015	1,209.6	0.84	-	6.16
patent ductus arteriosus	23	25	27	35	55	72	70	63	62	42	474	581.7	0.81	-	2.88
Anomalies of Respiratory System	34	26	23	20	35	45	39	27	19	21	289	303.5	0.95		1.75
Cleft Palate/Cleft Lip	35	40	46	47	31	39	53	58	52	45	446	463.3	0.96		2.71
Anomalies of Upper Alimentary Tract	34	33	24	42	54	55	61	47	108	124	582	461.5	1.26	+	3.53
tracheoesophageal fistula	6	4	3	6	5	2	3	5	2	3	39	48.4	0.81		0.24
pyloric stenosis	14	22	12	5	20	11	11	14	21	20	150	114.0	1.32	+	0.91
other anomalies of alimentary tract	14	7	9	31	29	42	47	28	85	101	393	299.1	1.31	+	2.39
Other Anomalies of Digestive System	25	36	23	23	37	41	41	30	29	33	318	340.2	0.93		1.93
Anomalies of Genital Organs	72	96	83	136	115	167	134	88	115	110	1,116	1,170.0	0.95		6.77
Anomalies of Urinary System	85	106	69	51	66	61	72	43	63	55	671	700.5	0.96		4.07
renal agenesis	9	18	7	5	9	10	8	4	6	13	89	91.6	0.97		0.54
cystic kidney disease	16	11	16	2	10	14	12	3	4	11	99	102.6	0.96		0.60
other urinary anomalies	59	77	46	44	47	37	52	36	53	31	482	505.8	0.95		2.93
Congenital Musculoskeletal Deformities	226	239	206	323	230	397	387	296	308	346	2,958	2,982.2	0.99		17.96
anomalies of spine	2	8	6	11	2	7	4	4	3	3	50	59.4	0.84		0.30
congenital dislocation of hip	75	64	63	132	67	172	130	86	130	166	1,085	931.4	1.16	+	6.59
varus, valgus, clubfoot	28	50	43	47	40	77	61	56	62	69	533	605.9	0.88	-	3.24
polydactyly, syndactyly	21	25	25	25	23	31	36	26	23	33	268	279.7	0.96		1.63
limb reductions	10	13	8	6	8	14	9	12	6	13	99	97.5	1.02		0.60
chondro/ osteo dystrophies	5	8	3	3	4	5	6	9	3	2	48	48.4	0.99		0.29
other musculoskeletal deformities	85	71	58	99	86	91	140	103	81	60	874	959.6	0.91	-	5.31
Anomalies of the Integument	20	32	29	65	25	51	59	30	69	76	456	533.0	0.86	-	2.77
hemangioma and lymphangioma	3	4	5	12	9	12	10	5	12	5	77	104.8	0.73	-	0.47
other anomalies of integument	17	28	24	53	16	39	49	25	57	71	379	428.1	0.89	-	2.30
Fetal Alcohol Spectrum Disorder	-	4	-	20	19	34	37	51	193	148	506	300.9	1.68	+	3.07
Chromosomal Anomalies	48	44	28	41	46	61	57	49	31	34	439	497.8	0.88	-	2.66
Down's syndrome	33	15	23	18	22	30	26	21	17	17	222	245.6	0.90		1.35
other chromosomal anomalies	14	28	5	23	24	31	31	28	14	17	215	250.3	0.86	-	1.31
Multiple & Multiple System Anomalies	22	22	15	34	21	16	33	13	17	9	202	223.6	0.90		1.23
Other and Unspecified Anomalies	17	17	9	17	28	20	25	19	11	9	172	180.7	0.95		1.04
Total Diagnoses	901	989	785	1,116	1,151	1,520	1,449	1,163	1,324	1,266	11,664	12,141.0	0.96	-	70.80
(Rate /1,000 total births)	(56.6)	(59.1)	(47.8)	(65.6)	(67.1)	(90.1)	(87.3)	(70.4)	(83.0)	(81.4)					
Total Cases	595	638	545	739	680	969	881	672	999	921	7,639	7,856.1	0.97	-	46.37
(Rate /1,000 total births)	(37.4)	(38.1)	(33.2)	(43.4)	(39.6)	(57.5)	(53.1)	(40.7)	(62.6)	(59.2)					
Total Births	15,915	16,726	16,439	17,020	17,156	16,864	16,597	16,514	15,946	15,560	164,737				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 7

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth British Columbia, 1991-2000

03 Vancouver Coastal HA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	**31**	**29**	**29**	**43**	**61**	**51**	**33**	**44**	**72**	**60**	**453**	**350.4**	**1.29**	**+**	**4.36**
anencephalus & similar defects	1	1	-	1	2	-	1	3	5	3	17	18.2	0.93		0.16
neural tube defects	11	9	4	11	6	7	7	10	20	18	103	91.2	1.13		0.99
hydrocephalus	5	2	5	9	9	8	5	6	15	12	76	48.3	1.57	+	0.73
other nervous system defects	14	17	20	22	44	36	20	25	32	27	257	191.5	1.34	+	2.48
Anomalies of Eye	**14**	**6**	**8**	**13**	**19**	**11**	**10**	**10**	**21**	**10**	**122**	**106.3**	**1.15**		**1.18**
Anomalies of Ear, Face, Neck	**36**	**8**	**5**	**38**	**14**	**24**	**27**	**34**	**38**	**45**	**269**	**222.4**	**1.21**	**+**	**2.59**
Anomalies of Heart	**81**	**60**	**91**	**123**	**123**	**172**	**150**	**233**	**177**	**186**	**1,396**	**1,069.2**	**1.31**	**+**	**13.45**
transposition of great vessels	2	4	4	5	9	6	6	10	4	14	64	59.4	1.08		0.62
tetralogy of Fallot	5	5	3	1	4	3	3	10	9	11	54	42.0	1.28		0.52
ventricular septal defect	29	22	30	38	28	53	44	57	49	51	401	273.0	1.47	+	3.86
hypoplastic left heart syndrome	3	-	3	2	4	4	6	9	6	3	40	26.3	1.52	+	0.39
other heart anomalies	42	29	51	77	78	106	91	147	109	107	837	668.5	1.25	+	8.06
Other Circulatory System Anomalies	**53**	**50**	**48**	**74**	**95**	**186**	**165**	**172**	**114**	**118**	**1,075**	**762.2**	**1.41**	**+**	**10.36**
patent ductus arteriosus	16	19	14	36	47	98	95	92	64	63	544	366.6	1.48	+	5.24
Anomalies of Respiratory System	**22**	**13**	**15**	**26**	**18**	**34**	**31**	**28**	**42**	**36**	**265**	**191.3**	**1.39**	**+**	**2.55**
Cleft Palate/Cleft Lip	**39**	**30**	**17**	**37**	**22**	**29**	**34**	**29**	**39**	**33**	**309**	**292.0**	**1.06**		**2.98**
Anomalies of Upper Alimentary Tract	**20**	**24**	**19**	**25**	**19**	**21**	**31**	**18**	**34**	**29**	**240**	**290.8**	**0.83**	**-**	**2.31**
tracheoesophageal fistula	2	4	1	6	6	7	8	6	4	4	48	30.5	1.57	+	0.46
pyloric stenosis	16	13	12	9	7	4	7	4	5	6	83	71.8	1.16		0.80
other anomalies of alimentary tract	2	7	6	10	6	10	16	8	25	19	109	188.5	0.58	-	1.05
Other Anomalies of Digestive System	**27**	**21**	**16**	**28**	**30**	**26**	**26**	**38**	**41**	**45**	**298**	**214.4**	**1.39**	**+**	**2.87**
Anomalies of Genital Organs	**63**	**60**	**73**	**69**	**59**	**137**	**109**	**84**	**129**	**115**	**898**	**737.3**	**1.22**	**+**	**8.65**
Anomalies of Urinary System	**40**	**40**	**60**	**61**	**46**	**78**	**65**	**87**	**73**	**72**	**622**	**441.4**	**1.41**	**+**	**5.99**
renal agenesis	4	8	5	11	3	9	6	6	13	10	75	57.7	1.30	+	0.72
cystic kidney disease	2	7	5	9	8	10	9	16	11	15	92	64.7	1.42	+	0.89
other urinary anomalies	34	25	50	41	35	59	50	65	49	47	455	318.8	1.43	+	4.38
Congenital Musculoskeletal Deformities	**229**	**179**	**183**	**213**	**133**	**265**	**274**	**238**	**413**	**324**	**2,451**	**1,879.3**	**1.30**	**+**	**23.61**
anomalies of spine	2	1	6	2	1	3	6	9	7	8	45	37.4	1.20		0.43
congenital dislocation of hip	95	103	84	76	30	109	92	88	160	143	980	586.9	1.67	+	9.44
varus, valgus, clubfoot	47	29	36	39	28	52	69	31	73	52	456	381.8	1.19	+	4.39
polydactyly, syndactyly	22	14	15	18	11	23	15	21	30	19	188	176.2	1.07		1.81
limb reductions	12	3	3	3	6	5	5	3	10	8	58	61.4	0.94		0.56
chondro/ osteo dystrophies	3	-	6	1	1	6	5	5	6	4	37	30.5	1.21		0.36
other musculoskeletal deformities	48	29	33	74	56	67	82	81	127	90	687	604.7	1.14	+	6.62
Anomalies of the Integument	**28**	**21**	**27**	**57**	**26**	**56**	**43**	**26**	**78**	**59**	**421**	**335.8**	**1.25**	**+**	**4.06**
hemangioma and lymphangioma	6	5	2	9	5	14	9	5	18	19	92	66.1	1.39	+	0.89
other anomalies of integument	22	16	25	48	21	42	34	21	60	40	329	269.8	1.22	+	3.17
Fetal Alcohol Spectrum Disorder	**1**	**3**	**1**	**8**	**3**	**16**	**22**	**22**	**20**	**6**	**102**	**189.6**	**0.54**	**-**	**0.98**
Chromosomal Anomalies	**32**	**28**	**29**	**37**	**40**	**44**	**45**	**58**	**58**	**72**	**443**	**313.7**	**1.41**	**+**	**4.27**
Down's syndrome	16	9	14	17	15	22	23	29	19	31	195	154.8	1.26	+	1.88
other chromosomal anomalies	16	19	15	20	25	22	22	29	39	41	248	157.8	1.57	+	2.39
Multiple & Multiple System Anomalies	**13**	**16**	**10**	**13**	**17**	**20**	**18**	**34**	**33**	**36**	**210**	**140.9**	**1.49**	**+**	**2.02**
Other and Unspecified Anomalies	**17**	**3**	**12**	**13**	**13**	**15**	**13**	**25**	**15**	**16**	**142**	**113.9**	**1.25**	**+**	**1.37**
Total Diagnoses	**746**	**591**	**643**	**878**	**738**	**1,185**	**1,096**	**1,180**	**1,397**	**1,262**	**9,716**	**7,650.9**	**1.27**	**+**	**93.59**
(Rate /1,000 total births)	**(72.1)**	**(56.2)**	**(60.5)**	**(81.8)**	**(67.6)**	**(109.8)**	**(106.1)**	**(121.0)**	**(141.8)**	**(127.0)**					
Total Cases	**535**	**458**	**479**	**565**	**418**	**733**	**694**	**634**	**900**	**796**	**6,212**	**4,950.7**	**1.25**	**+**	**59.84**
(Rate /1,000 total births)	**(51.7)**	**(43.6)**	**(45.1)**	**(52.6)**	**(38.3)**	**(67.9)**	**(67.2)**	**(65.0)**	**(91.3)**	**(80.1)**					
Total Births	**10,340**	**10,512**	**10,630**	**10,740**	**10,924**	**10,790**	**10,330**	**9,753**	**9,853**	**9,940**	**103,812**				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 8

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth
British Columbia, 1991-2000

04 Vancouver Island HA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	**25**	**18**	**13**	**17**	**31**	**35**	**22**	**20**	**9**	**12**	**202**	**232.1**	**0.87**	-	**2.94**
anencephalus & similar defects	2	2	1	-	-	-	1	-	-	-	6	12.1	0.50		0.09
neural tube defects	9	9	4	6	6	8	4	4	-	2	52	60.4	0.86		0.76
hydrocephalus	5	2	-	3	4	7	4	1	3	2	31	32.0	0.97		0.45
other nervous system defects	9	5	8	8	20	20	12	15	6	8	111	126.8	0.88		1.61
Anomalies of Eye	**7**	**3**	**2**	**8**	**19**	**18**	**6**	**2**	**8**	**3**	**76**	**70.4**	**1.08**		**1.11**
Anomalies of Ear, Face, Neck	**5**	**10**	**10**	**16**	**26**	**23**	**17**	**13**	**18**	**8**	**146**	**147.3**	**0.99**		**2.12**
Anomalies of Heart	**52**	**45**	**49**	**46**	**99**	**91**	**85**	**76**	**51**	**64**	**658**	**708.3**	**0.93**		**9.57**
transposition of great vessels	6	2	4	-	6	6	4	4	-	4	36	39.3	0.92		0.52
tetralogy of Fallot	1	2	3	2	6	6	3	5	3	-	31	27.8	1.11		0.45
ventricular septal defect	16	7	12	14	23	25	14	16	11	17	155	180.8	0.86		2.25
hypoplastic left heart syndrome	1	4	-	2	2	2	1	-	1	3	16	17.4	0.92		0.23
other heart anomalies	28	30	30	28	62	52	63	51	36	40	420	442.8	0.95		6.11
Other Circulatory System Anomalies	**24**	**17**	**21**	**56**	**52**	**68**	**55**	**71**	**38**	**59**	**461**	**504.9**	**0.91**		**6.70**
patent ductus arteriosus	7	2	4	20	31	40	25	39	19	33	220	242.8	0.91		3.20
Anomalies of Respiratory System	**18**	**9**	**3**	**8**	**5**	**10**	**14**	**11**	**11**	**6**	**95**	**126.7**	**0.75**	-	**1.38**
Cleft Palate/Cleft Lip	**15**	**17**	**12**	**10**	**22**	**20**	**12**	**23**	**20**	**15**	**166**	**193.4**	**0.86**	-	**2.41**
Anomalies of Upper Alimentary Tract	**9**	**6**	**8**	**15**	**14**	**23**	**12**	**8**	**44**	**27**	**166**	**192.6**	**0.86**		**2.41**
tracheoesophageal fistula	4	-	2	6	2	-	4	1	2	-	21	20.2	1.04		0.31
pyloric stenosis	4	5	2	3	3	5	3	2	2	4	33	47.6	0.69	-	0.48
other anomalies of alimentary tract	1	1	4	6	9	18	5	5	40	23	112	124.9	0.90		1.63
Other Anomalies of Digestive System	**9**	**7**	**5**	**9**	**15**	**15**	**8**	**15**	**13**	**8**	**104**	**142.0**	**0.73**	-	**1.51**
Anomalies of Genital Organs	**22**	**20**	**28**	**48**	**50**	**55**	**35**	**30**	**48**	**31**	**367**	**488.4**	**0.75**	-	**5.34**
Anomalies of Urinary System	**16**	**30**	**13**	**24**	**19**	**23**	**19**	**36**	**29**	**26**	**235**	**292.4**	**0.80**	-	**3.42**
renal agenesis	7	11	2	3	1	3	-	5	9	1	42	38.3	1.10		0.61
cystic kidney disease	1	5	1	3	2	6	2	6	2	1	29	42.8	0.68	-	0.42
other urinary anomalies	8	14	10	18	16	14	17	25	18	24	164	211.1	0.78	-	2.38
Congenital Musculoskeletal Deformities	**64**	**57**	**69**	**63**	**121**	**149**	**105**	**102**	**124**	**86**	**940**	**1,244.8**	**0.76**	-	**13.67**
anomalies of spine	3	1	-	2	3	6	5	2	5	1	28	24.8	1.13		0.41
congenital dislocation of hip	4	4	8	11	16	19	20	14	27	11	134	388.8	0.34	-	1.95
varus, valgus, clubfoot	14	13	28	19	29	44	22	24	27	27	247	252.9	0.98		3.59
polydactyly, syndactyly	7	9	8	6	10	12	.	14	18	16	112	116.7	0.96		1.63
limb reductions	4	2	3	-	9	2	4	4	3	-	31	40.7	0.76		0.45
chondro/ osteo dystrophies	1	-	5	1	8	4	1	4	3	1	28	20.2	1.39		0.41
other musculoskeletal deformities	31	28	17	24	46	62	41	40	41	30	360	400.6	0.90	-	5.24
Anomalies of the Integument	**7**	**15**	**6**	**23**	**20**	**26**	**13**	**16**	**30**	**28**	**184**	**222.5**	**0.83**	-	**2.68**
hemangioma and lymphangioma	3	3	-	7	3	7	2	2	5	4	36	43.8	0.82		0.52
other anomalies of integument	4	12	6	16	17	19	11	14	25	24	148	178.7	0.83	-	2.15
Fetal Alcohol Spectrum Disorder	**-**	**3**	**1**	**4**	**4**	**14**	**8**	**4**	**17**	**7**	**62**	**125.6**	**0.49**	-	**0.90**
Chromosomal Anomalies	**9**	**16**	**16**	**17**	**23**	**30**	**23**	**24**	**17**	**18**	**193**	**207.8**	**0.93**		**2.81**
Down's syndrome	6	9	9	10	15	17	14	8	5	13	106	102.5	1.03		1.54
other chromosomal anomalies	3	7	7	7	8	13	9	16	12	5	87	104.5	0.83		1.27
Multiple & Multiple System Anomalies	**9**	**6**	**4**	**6**	**17**	**5**	**6**	**12**	**8**	**6**	**79**	**93.3**	**0.85**		**1.15**
Other and Unspecified Anomalies	**6**	**5**	**3**	**8**	**19**	**9**	**7**	**8**	**7**	**5**	**77**	**75.4**	**1.02**		**1.12**
Total Diagnoses	**297**	**284**	**263**	**378**	**556**	**614**	**447**	**471**	**492**	**409**	**4,211**	**5,067.9**	**0.83**	-	**61.24**
(Rate /1,000 total births)	**(39.7)**	**(38.3)**	**(35.8)**	**(51.0)**	**(77.4)**	**(87.3)**	**(66.9)**	**(74.6)**	**(79.7)**	**(71.2)**					
Total Cases	**196**	**207**	**194**	**253**	**323**	**384**	**268**	**252**	**336**	**285**	**2,698**	**3,279.3**	**0.82**	-	**39.24**
(Rate /1,000 total births)	**(26.2)**	**(27.9)**	**(26.4)**	**(34.2)**	**(45.0)**	**(54.6)**	**(40.1)**	**(39.9)**	**(54.5)**	**(49.6)**					
Total Births	**7,482**	**7,412**	**7,339**	**7,405**	**7,180**	**7,037**	**6,684**	**6,313**	**6,170**	**5,743**	**68,765**				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 9

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth British Columbia, 1991-2000

05 Northern HA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	**19**	**21**	**15**	**26**	**19**	**11**	**14**	**11**	**11**	**8**	**155**	**148.2**	**1.05**		**3.53**
anencephalus & similar defects	1	2	1	2	1	1	-	-	2	1	11	7.7	1.43		0.25
neural tube defects	6	10	8	7	4	4	4	2	4	1	50	38.6	1.30		1.14
hydrocephalus	4	-	2	3	3	-	2	1	1	-	16	20.4	0.78		0.36
other nervous system defects	8	9	4	14	10	6	8	8	4	6	77	81.0	0.95		1.75
Anomalies of Eye	**2**	**4**	**7**	**3**	**7**	**5**	**8**	**7**	**4**	**3**	**50**	**44.9**	**1.11**		**1.14**
Anomalies of Ear, Face, Neck	**3**	**9**	**7**	**5**	**7**	**13**	**12**	**9**	**6**	**9**	**80**	**94.1**	**0.85**		**1.82**
Anomalies of Heart	**26**	**32**	**32**	**45**	**40**	**54**	**70**	**40**	**30**	**35**	**404**	**452.2**	**0.89**	-	**9.20**
transposition of great vessels	1	2	4	2	3	4	4	5	2	2	29	25.1	1.15		0.66
tetralogy of Fallot	-	1	4	1	-	-	2	-	3	1	12	17.8	0.67		0.27
ventricular septal defect	6	7	4	11	10	12	12	7	10	10	89	115.5	0.77	-	2.03
hypoplastic left heart syndrome	-	-	1	1	2	1	1	-	-	-	6	11.1	0.54		0.14
other heart anomalies	19	22	19	30	25	37	51	28	15	22	268	282.7	0.95		6.10
Other Circulatory System Anomalies	**10**	**15**	**8**	**30**	**35**	**44**	**52**	**25**	**27**	**20**	**266**	**322.4**	**0.83**	-	**6.06**
patent ductus arteriosus	2	8	4	8	15	23	21	14	11	12	118	155.0	0.76	-	2.69
Anomalies of Respiratory System	**5**	**5**	**5**	**3**	**6**	**5**	**8**	**6**	**15**	**4**	**62**	**80.9**	**0.77**	-	**1.41**
Cleft Palate/Cleft Lip	**22**	**12**	**10**	**15**	**14**	**17**	**21**	**19**	**11**	**11**	**152**	**123.5**	**1.23**	+	**3.46**
Anomalies of Upper Alimentary Tract	**3**	**5**	**8**	**5**	**9**	**18**	**13**	**10**	**23**	**23**	**117**	**123.0**	**0.95**		**2.66**
tracheoesophageal fistula	1	1	1	-	1	-	1	1	1	-	7	12.9	0.54		0.16
pyloric stenosis	2	1	1	1	-	4	2	3	1	2	17	30.4	0.56	-	0.39
other anomalies of alimentary tract	-	3	6	4	8	14	10	6	21	21	93	79.7	1.17		2.12
Other Anomalies of Digestive System	**3**	**8**	**6**	**3**	**6**	**11**	**7**	**14**	**4**	**8**	**70**	**90.7**	**0.77**	-	**1.59**
Anomalies of Genital Organs	**24**	**19**	**12**	**45**	**27**	**34**	**43**	**30**	**38**	**49**	**321**	**311.9**	**1.03**		**7.31**
Anomalies of Urinary System	**16**	**16**	**20**	**15**	**12**	**8**	**18**	**22**	**21**	**23**	**171**	**186.7**	**0.92**		**3.89**
renal agenesis	2	1	2	5	-	-	3	5	-	2	20	24.4	0.82		0.46
cystic kidney disease	-	4	5	1	1	4	2	5	3	2	27	27.4	0.99		0.61
other urinary anomalies	14	11	13	9	11	4	13	12	18	19	124	134.8	0.92		2.82
Congenital Musculoskeletal Deformities	**59**	**58**	**40**	**71**	**55**	**82**	**95**	**86**	**95**	**122**	**763**	**794.9**	**0.96**		**17.38**
anomalies of spine	2	2	2	1	4	1	1	2	2	3	20	15.8	1.26		0.46
congenital dislocation of hip	12	7	6	15	4	12	9	7	19	20	111	248.3	0.45	-	2.53
varus, valgus, clubfoot	14	17	11	23	14	18	27	16	18	25	183	161.5	1.13		4.17
polydactyly, syndactyly	3	12	4	2	6	10	7	9	6	16	75	74.5	1.01		1.71
limb reductions	4	2	3	1	2	2	7	2	2	6	31	26.0	1.19		0.71
chondro/ osteo dystrophies	-	-	3	1	-	-	1	4	1	-	10	12.9	0.78		0.23
other musculoskeletal deformities	24	18	11	28	25	39	43	46	47	52	333	255.8	1.30	+	7.58
Anomalies of the Integument	**8**	**11**	**6**	**16**	**11**	**12**	**28**	**18**	**26**	**21**	**157**	**142.1**	**1.11**		**3.58**
hemangioma and lymphangioma	3	1	-	3	3	4	4	1	1	3	23	27.9	0.82		0.52
other anomalies of integument	5	10	6	13	8	8	24	17	25	18	134	114.1	1.17		3.05
Fetal Alcohol Spectrum Disorder	**7**	**1**	**2**	**9**	**5**	**13**	**17**	**13**	**13**	**10**	**90**	**80.2**	**1.12**		**2.05**
Chromosomal Anomalies	**10**	**7**	**11**	**5**	**10**	**7**	**21**	**7**	**6**	**6**	**90**	**132.7**	**0.68**	-	**2.05**
Down's syndrome	6	2	6	3	6	1	9	3	4	4	44	65.5	0.67	-	1.00
other chromosomal anomalies	3	4	5	2	4	6	12	4	2	2	44	66.7	0.66	-	1.00
Multiple & Multiple System Anomalies	**4**	**2**	**3**	**1**	**6**	**6**	**2**	**6**	**7**	**3**	**40**	**59.6**	**0.67**	-	**0.91**
Other and Unspecified Anomalies	**1**	**5**	**1**	**2**	**4**	**8**	**5**	**1**	**10**	**1**	**38**	**48.2**	**0.79**		**0.87**
Total Diagnoses	**222**	**230**	**193**	**299**	**273**	**348**	**434**	**324**	**347**	**356**	**3,026**	**3,236.1**	**0.94**	-	**68.92**
(Rate /1,000 total births)	**(46.2)**	**(49.5)**	**(41.9)**	**(62.8)**	**(60.5)**	**(75.9)**	**(99.0)**	**(79.2)**	**(90.8)**	**(96.7)**					
Total Cases	**160**	**154**	**121**	**207**	**171**	**257**	**251**	**209**	**238**	**252**	**2,020**	**2,094.0**	**0.96**		**46.00**
(Rate /1,000 total births)	**(33.3)**	**(33.1)**	**(26.3)**	**(43.5)**	**(37.9)**	**(56.1)**	**(57.3)**	**(51.1)**	**(62.3)**	**(68.4)**					
Total Births	**4,810**	**4,651**	**4,609**	**4,763**	**4,514**	**4,583**	**4,382**	**4,092**	**3,822**	**3,683**	**43,909**				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Health Service Delivery Area Highlights

Tables 10 to 23 show reported congenital anomaly diagnoses by year of birth for 1991-2000 for each HSDA. These tables allow the reader to compare various congenital anomaly categories and subcategories within a geographic area. It should be noted, however, that the number of diagnoses and cases is often small (as low as 20 diagnoses in 15 births in a year).

The next series of tables, 24 to 30, are designed to facilitate comparisons of reported congenital anomaly diagnoses across sub provincial areas. The categories shown here are also used in the following section for the tables and maps by local health area, and include:

- congenital anomaly cases
- congenital anomaly diagnoses
- congenital nervous system defects
- congenital heart defect
- cleft lip/cleft palate defects
- congenital musculoskeletal deformities
- chromosomal anomalies

Three of the four HSDAs in the Interior HA (11 East Kootenay, 12 Kootenay Boundary, and 14 Thompson Cariboo) had statistically significant low ratios of actual to expected cases, while 13 Okanagan was not statistically significant for cases with congenital anomalies.

Of the three HSDAs in the Fraser HA, the ratio of actual to expected cases with congenital anomalies in 21 Fraser Valley was statistically significant and low, 22 Simon Fraser was statistically significant and high, and 23 South Fraser was not statistically significant.

HSDA 32 Vancouver had a statistically significant high ratio of actual to expected cases with congenital anomalies. The other health service delivery areas (31 Richmond and 33 North Shore/ Coast Garibaldi) in this HA had statistically significant low ratios.

All three of the HSDAs in the Vancouver Island HA (41 South Vancouver Island, 42 Central Vancouver Island, and 43 North Vancouver Island) also had statistically significant low ratios of actual to expected cases with congenital anomalies.

Although the ratio of actual to expected cases with congenital anomalies was not statistically significant for the Northern HA, HSDA 52 Northern Interior had a statistically significant high ratio, while 51 Northwest and 53 Northeast had statistically significant low ratios.

The pattern of statistical significance for congenital anomaly diagnoses at the HSDA level was nearly identical to that for congenital anomaly cases.

The HSDAs with statistically significant high ratios between observed and expected congenital nervous system defects (with the number of diagnoses, followed by the rates) were:

32 Vancouver	1.66	334	5.59
51 Northwest	1.41	64	4.77

There were five HSDAs with statistically significant low ratios for congenital nervous system defects; the lowest ratios (with the number of diagnoses, followed by the rates) were:

43 North Vancouver Island	0.53	13	1.80
11 East Kootenay	0.56	15	1.88
31 Richmond	0.57	32	1.91

The HSDAs with statistically significant high ratios between observed and expected congenital heart defects (with the number of diagnoses, followed by the rates) were:

32 Vancouver	1.67	1,030	17.24
52 Northern Interior	1.25	264	12.82

Five HSDAs had statistically significant low ratios for congenital heart defects; the lowest (with the number of diagnoses, followed by the rates) were:

11 East Kootenay	0.52	43	5.39
53 Northeast	0.53	54	5.46
51 Northwest	0.62	86	6.41

The HSDAs with statistically significant high ratios between observed and expected cleft palate/cleft lip (with the number of diagnoses, followed by the rates) were:

52 Northern Interior	1.45	84	4.08
32 Vancouver	1.21	203	3.40

The HSDAs with statistically significant low ratios for cleft palate/cleft lip (with the number of diagnoses, followed by the rates) were:

11 East Kootenay	0.45	10	1.25
33 North Shore/Coast Garibaldi	0.73	56	2.05
41 South Vancouver Island	0.78	83	2.18

The HSDAs with statistically significant high ratios between observed and congenital musculoskeletal deformities (with the number of diagnoses, followed by the rates) were:

32 Vancouver	1.64	1,775	29.72
22 Simon Fraser	1.14	1,222	20.60
52 Northern Interior	1.11	412	20.01

Twelve HSDAs had statistically significant low ratios for congenital musculoskeletal deformities. The lowest (with the number of diagnoses, followed by the rates) were:

12 Kootenay Boundary	0.62	86	11.17
21 Fraser Valley	0.67	383	12.20
41 South Vancouver Island	0.68	468	12.31
43 North Vancouver Island	0.68	89	12.31

Only HSDA 32 Vancouver had a statistically significant high ratio between observed and expected chromosomal anomalies (1.76) with 318 diagnoses and a rate of 5.32 per 1,000 total births.

Five HSDAs had statistically significant low ratios for chromosomal anomalies; the lowest (with the number of diagnoses, followed by the rates) were:

43 North Vancouver Island	0.55	12	1.66
52 Northern Interior	0.66	41	1.99
51 Northwest	0.69	28	2.09

The HSDAs with statistically significant high ratios between observed and expected congenital nervous system defects (with the number of diagnoses, followed by the rates) were:

32 Vancouver	1.66	334	5.59
51 Northwest	1.41	64	4.77

There were five HSDAs with statistically significant low ratios for congenital nervous system defects; the lowest ratios (with the number of diagnoses, followed by the rates) were:

43 North Vancouver Island	0.53	13	1.80
11 East Kootenay	0.56	15	1.88
31 Richmond	0.57	32	1.91

Table 10

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth
British Columbia, 1991-2000

11 East Kootenay HSDA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	1	3	1	3	2	-	1	3	1	-	15	26.9	0.56	-	1.88
anencephalus & similar defects	-	-	-	1	-	-	-	-	-	-	1	1.4	0.71		0.13
neural tube defects	1	2	-	-	1	-	1	2	-	-	7	7.0	1.00		0.88
hydrocephalus	-	-	-	-	1	-	-	-	-	-	1	3.7	0.27		0.13
other nervous system defects	-	1	1	2	-	-	-	1	1	-	6	14.7	0.41	-	0.75
Anomalies of Eye	1	-	-	3	1	1	-	1	-	1	8	8.2	0.98		1.00
Anomalies of Ear, Face, Neck	1	4	-	1	2	-	-	-	2	2	12	17.1	0.70		1.50
Anomalies of Heart	3	5	2	7	5	5	7	4	1	4	43	82.2	0.52	-	5.39
transposition of great vessels	-	-	-	-	-	-	-	-	-	-	-	4.6	-		-
tetralogy of Fallot	-	-	-	1	-	-	-	-	-	-	1	3.2	0.31		0.13
ventricular septal defect	2	2	-	-	2	-	1	-	-	-	7	21.0	0.33	-	0.88
hypoplastic left heart syndrome	-	-	-	1	1	-	-	-	-	-	2	2.0	0.99		0.25
other heart anomalies	1	3	2	5	2	5	6	4	1	4	33	51.4	0.64	-	4.14
Other Circulatory System Anomalies	2	3	2	2	2	5	2	7	1	1	27	58.6	0.46	-	3.38
patent ductus arteriosus	1	1	-	2	1	3	1	2	-	-	11	28.2	0.39	-	1.38
Anomalies of Respiratory System	2	2	1	1	1	1	-	-	-	1	9	14.7	0.61		1.13
Cleft Palate/Cleft Lip	-	2	-	-	1	3	1	3	-	-	10	22.4	0.45	-	1.25
Anomalies of Upper Alimentary Tract	1	-	1	2	2	-	1	-	3	4	14	22.4	0.63		1.75
tracheoesophageal fistula	-	-	-	1	-	-	-	-	-	-	1	2.3	0.43		0.13
pyloric stenosis	1	-	-	-	-	-	-	-	-	-	1	5.5	0.18		0.13
other anomalies of alimentary tract	-	-	1	1	2	-	1	-	3	4	12	14.5	0.83		1.50
Other Anomalies of Digestive System	1	1	-	-	-	-	-	-	-	1	3	16.5	0.18	(-)	0.38
Anomalies of Genital Organs	2	7	3	3	2	6	4	2	2	4	35	56.7	0.62	-	4.39
Anomalies of Urinary System	-	-	-	1	1	2	-	-	2	-	6	33.9	0.18	-	0.75
renal agenesis	-	-	-	-	-	-	-	-	-	-	-	4.4	-		-
cystic kidney disease	-	-	-	-	-	-	-	-	-	-	-	5.0	-		-
other urinary anomalies	-	-	-	1	1	2	-	-	2	-	6	24.5	0.24	-	0.75
Congenital Musculoskeletal Deformities	10	10	8	5	14	12	6	10	14	17	106	144.5	0.73	-	13.28
anomalies of spine	-	2	-	-	-	1	-	1	-	-	4	2.9	1.39		0.50
congenital dislocation of hip	3	2	1	-	4	2	1	1	4	5	23	45.1	0.51	-	2.88
varus, valgus, clubfoot	2	2	2	1	2	1	1	4	5	6	26	29.4	0.89		3.26
polydactyly, syndactyly	2	2	3	-	3	-	2	1	2	2	17	13.5	1.25		2.13
limb reductions	-	-	-	-	1	2	-	1	-	-	4	4.7	0.85		0.50
chondro/ osteo dystrophies	-	-	-	-	-	-	-	1	-	-	1	2.3	0.43		0.13
other musculoskeletal deformities	3	2	2	4	4	6	2	1	3	4	31	46.5	0.67	-	3.88
Anomalies of the Integument	-	3	-	1	-	3	4	-	6	1	18	25.8	0.70		2.26
hemangioma and lymphangioma	-	1	-	-	-	-	2	-	2	1	6	5.1	1.18		0.75
other anomalies of integument	-	2	-	1	-	3	2	-	4	-	12	20.7	0.58		1.50
Fetal Alcohol Spectrum Disorder	-	-	-	-	-	-	-	-	-	-	-	14.6	-		-
Chromosomal Anomalies	1	1	1	1	1	5	3	4	1	2	20	24.1	0.83		2.51
Down's syndrome	1	1	1	1	-	2	3	2	1	1	13	11.9	1.09		1.63
other chromosomal anomalies	-	-	-	-	1	3	-	2	-	1	7	12.1	0.58		0.88
Multiple & Multiple System Anomalies	-	-	-	2	-	3	-	-	-	-	5	10.8	0.46		0.63
Other and Unspecified Anomalies	1	-	1	-	-	-	-	-	1	1	4	8.8	0.46		0.50
Total Diagnoses	26	41	20	32	34	46	29	34	34	39	335	588.1	0.57	-	41.98
(Rate /1,000 total births)	(28.8)	(48.1)	(24.7)	(36.8)	(43.4)	(59.3)	(35.5)	(45.5)	(45.6)	(57.8)					
Total Cases	22	26	15	22	21	27	24	22	32	33	244	380.6	0.64	-	30.58
(Rate /1,000 total births)	(24.4)	(30.5)	(18.5)	(25.3)	(26.8)	(34.8)	(29.4)	(29.4)	(43.0)	(48.9)					
Total Births	902	853	811	870	784	776	816	748	745	675	7,980				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 11

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth British Columbia, 1991-2000

12 Kootenay Boundary HSDA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	4	-	1	4	3	-	4	3	-	1	20	26.0	0.77		2.60
anencephalus & similar defects	1	-	-	-	-	-	1	-	-	-	2	1.4	1.48		0.26
neural tube defects	3	-	-	2	-	-	1	-	-	-	6	6.8	0.89		0.78
hydrocephalus	-	-	1	-	1	-	-	1	-	-	3	3.6	0.84		0.39
other nervous system defects	-	-	-	2	2	-	2	2	-	1	9	14.2	0.63		1.17
Anomalies of Eye	1	-	1	1	-	1	4	-	3	-	11	7.9	1.40		1.43
Anomalies of Ear, Face, Neck	1	2	-	1	1	1	-	1	-	2	9	16.5	0.55		1.17
Anomalies of Heart	2	4	6	10	23	1	9	10	1	2	68	79.3	0.86		8.83
transposition of great vessels	-	1	-	-	1	-	2	-	-	-	4	4.4	0.91		0.52
tetralogy of Fallot	1	-	-	-	2	-	-	-	-	-	3	3.1	0.96		0.39
ventricular septal defect	1	1	1	4	5	-	4	2	1	1	20	20.3	0.99		2.60
hypoplastic left heart syndrome	-	-	-	1	1	-	-	1	-	-	3	2.0	1.54		0.39
other heart anomalies	-	2	5	5	14	1	3	7	-	1	38	49.6	0.77		4.93
Other Circulatory System Anomalies	4	2	-	7	3	4	13	3	2	-	38	56.5	0.67	-	4.93
patent ductus arteriosus	-	1	-	2	1	2	5	2	1	-	14	27.2	0.51	-	1.82
Anomalies of Respiratory System	2	1	-	2	2	1	1	-	-	-	9	14.2	0.63		1.17
Cleft Palate/Cleft Lip	-	1	2	4	2	3	2	2	2	1	19	21.7	0.88		2.47
Anomalies of Upper Alimentary Tract	1	-	1	4	3	1	-	2	3	2	17	21.6	0.79		2.21
tracheoesophageal fistula	-	-	1	-	-	-	-	2	-	-	3	2.3	1.33		0.39
pyloric stenosis	1	-	-	2	-	-	-	-	-	-	3	5.3	0.56		0.39
other anomalies of alimentary tract	-	-	-	2	3	1	-	-	3	2	11	14.0	0.79		1.43
Other Anomalies of Digestive System	3	1	3	4	5	-	1	3	5	1	26	15.9	1.64	+	3.38
Anomalies of Genital Organs	2	5	4	4	3	5	2	6	6	12	49	54.7	0.90		6.36
Anomalies of Urinary System	-	1	1	3	4	-	1	6	1	3	20	32.7	0.61	-	2.60
renal agenesis	-	-	-	-	-	-	-	2	-	-	2	4.3	0.47		0.26
cystic kidney disease	-	-	-	1	-	-	1	-	-	1	3	4.8	0.63		0.39
other urinary anomalies	-	1	1	2	4	-	-	4	1	2	15	23.6	0.63		1.95
Congenital Musculoskeletal Deformities	11	12	9	17	4	7	4	9	5	8	86	139.4	0.62	-	11.17
anomalies of spine	-	-	-	-	-	-	-	-	-	-	-	2.8	-		-
congenital dislocation of hip	4	3	-	4	-	2	2	1	1	1	18	43.5	0.41	-	2.34
varus, valgus, clubfoot	4	2	4	4	-	3	1	2	-	4	24	28.3	0.85		3.12
polydactyly, syndactyly	1	1	-	1	-	-	-	-	1	-	4	13.1	0.31	(-)	0.52
limb reductions	1	2	-	1	1	-	-	1	-	-	6	4.6	1.32		0.78
chondro/ osteo dystrophies	-	1	-	-	-	-	-	-	1	-	2	2.3	0.88		0.26
other musculoskeletal deformities	1	3	5	7	3	2	1	5	2	3	32	44.9	0.71		4.16
Anomalies of the Integument	-	2	2	2	3	-	2	2	2	6	21	24.9	0.84		2.73
hemangioma and lymphangioma	-	-	1	-	2	-	-	1	-	-	4	4.9	0.82		0.52
other anomalies of integument	-	2	1	2	1	-	2	1	2	6	17	20.0	0.85		2.21
Fetal Alcohol Spectrum Disorder	-	1	-	-	-	-	1	1	-	1	4	14.1	0.28	(-)	0.52
Chromosomal Anomalies	4	5	3	3	2	-	5	-	1	1	24	23.3	1.03		3.12
Down's syndrome	3	2	3	-	2	-	3	-	1	1	15	11.5	1.31		1.95
other chromosomal anomalies	1	3	-	3	-	-	2	-	-	-	9	11.7	0.77		1.17
Multiple & Multiple System Anomalies	-	4	2	5	-	-	-	3	-	1	15	10.5	1.44		1.95
Other and Unspecified Anomalies	-	-	1	-	1	-	1	2	2	-	7	8.4	0.83		0.91
Total Diagnoses	35	41	36	71	59	24	50	53	33	41	443	567.6	0.78	-	57.52
(Rate /1,000 total births)	(37.9)	(50.9)	(42.7)	(86.7)	(73.0)	(31.7)	(71.1)	(74.4)	(48.2)	(63.6)					
Total Cases	26	27	21	36	25	19	29	24	26	35	268	367.3	0.73	-	34.80
(Rate /1,000 total births)	(28.2)	(33.5)	(24.9)	(44.0)	(30.9)	(25.1)	(41.3)	(33.7)	(38.0)	(54.3)					
Total Births	923	806	844	819	808	756	703	712	685	645	7,701				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 12

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth British Columbia, 1991-2000

13 Okanagan HSDA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	4	8	7	7	19	14	5	10	7	11	92	98.1	0.94		3.17
anencephalus & similar defects	1	-	-	1	-	-	1	-	-	-	3	5.1	0.59		0.10
neural tube defects	1	5	3	-	4	-	-	4	2	-	19	25.5	0.74		0.65
hydrocephalus	-	-	1	1	4	4	-	-	1	2	13	13.5	0.96		0.45
other nervous system defects	2	3	3	5	11	10	3	6	4	9	56	53.6	1.04		1.93
Anomalies of Eye	6	2	6	5	7	4	-	2	6	3	41	29.7	1.38	+	1.41
Anomalies of Ear, Face, Neck	5	4	4	8	7	8	8	8	6	5	63	62.3	1.01		2.17
Anomalies of Heart	17	10	13	38	27	34	61	26	21	31	278	299.3	0.93		9.57
transposition of great vessels	2	-	1	1	2	-	3	-	-	1	10	16.6	0.60		0.34
tetralogy of Fallot	-	2	-	1	1	3	2	2	-	3	14	11.8	1.19		0.48
ventricular septal defect	6	3	2	9	6	15	16	7	8	6	78	76.4	1.02		2.68
hypoplastic left heart syndrome	1	-	1	-	1	-	1	1	-	-	5	7.4	0.68		0.17
other heart anomalies	8	5	9	27	17	16	39	16	13	21	171	187.1	0.91		5.88
Other Circulatory System Anomalies	17	8	13	20	16	20	25	28	28	23	198	213.4	0.93		6.81
patent ductus arteriosus	7	2	5	5	7	11	14	12	14	9	86	102.6	0.84		2.96
Anomalies of Respiratory System	3	5	2	8	7	8	5	4	2	14	58	53.5	1.08		2.00
Cleft Palate/Cleft Lip	11	7	9	5	4	16	8	6	10	21	97	81.7	1.19		3.34
Anomalies of Upper Alimentary Tract	2	3	2	3	11	15	5	4	14	19	78	81.4	0.96		2.68
tracheoesophageal fistula	-	2	1	-	2	1	2	-	1	-	9	8.5	1.05		0.31
pyloric stenosis	1	-	-	-	-	4	-	1	1	-	7	20.1	0.35	-	0.24
other anomalies of alimentary tract	1	1	1	3	9	10	3	3	12	19	62	52.8	1.18		2.13
Other Anomalies of Digestive System	3	6	9	4	6	7	12	10	3	5	65	60.0	1.08		2.24
Anomalies of Genital Organs	21	13	23	23	23	25	19	22	31	42	242	206.4	1.17	+	8.33
Anomalies of Urinary System	4	7	8	5	17	18	9	13	11	14	106	123.6	0.86		3.65
renal agenesis	1	-	1	2	4	3	-	2	2	-	15	16.2	0.93		0.52
cystic kidney disease	1	1	-	1	2	6	-	1	2	5	19	18.1	1.05		0.65
other urinary anomalies	2	6	7	2	11	9	9	10	7	9	72	89.2	0.81		2.48
Congenital Musculoskeletal Deformities	30	26	29	57	52	67	40	41	67	66	475	526.1	0.90	-	16.35
anomalies of spine	-	-	-	-	2	3	-	-	1	1	7	10.5	0.67		0.24
congenital dislocation of hip	9	6	10	14	8	13	13	9	17	18	117	164.3	0.71	-	4.03
varus, valgus, clubfoot	5	9	7	11	16	4	9	10	13	19	103	106.9	0.96		3.54
polydactyly, syndactyly	5	6	1	10	3	6	4	3	7	11	56	49.3	1.14		1.93
limb reductions	2	1	-	-	1	8	2	1	1	-	16	17.2	0.93		0.55
chondro/ osteo dystrophies	-	-	1	-	1	-	-	-	-	-	2	8.5	0.23	(-)	0.07
other musculoskeletal deformities	9	4	10	22	21	33	12	18	28	17	174	169.3	1.03		5.99
Anomalies of the Integument	1	5	4	22	9	13	13	9	22	32	130	94.0	1.38	+	4.47
hemangioma and lymphangioma	1	3	1	5	1	3	5	2	5	5	31	18.5	1.68	+	1.07
other anomalies of integument	-	2	3	17	8	10	8	7	17	27	99	75.5	1.31	+	3.41
Fetal Alcohol Spectrum Disorder	-	-	-	2	1	5	5	6	5	6	30	53.1	0.57	-	1.03
Chromosomal Anomalies	9	6	4	12	5	14	15	7	6	8	86	87.8	0.98		2.96
Down's syndrome	5	4	4	8	3	4	8	3	6	5	50	43.3	1.15		1.72
other chromosomal anomalies	3	2	-	4	2	10	7	4	-	3	35	44.2	0.79		1.20
Multiple & Multiple System Anomalies	6	1	2	5	2	2	3	2	2	7	32	39.4	0.81		1.10
Other and Unspecified Anomalies	2	-	4	-	3	3	3	3	2	3	23	31.9	0.72		0.79
Total Diagnoses	141	111	139	224	216	273	236	201	243	310	2,094	2,141.7	0.98		72.06
(Rate /1,000 total births)	(50.7)	(37.6)	(45.0)	(72.8)	(66.8)	(91.7)	(82.8)	(73.4)	(88.0)	(119.0)					
Total Cases	71	88	93	144	130	154	139	116	181	202	1,318	1,385.8	0.95		45.35
(Rate /1,000 total births)	(25.5)	(29.8)	(30.1)	(46.8)	(40.2)	(51.7)	(48.8)	(42.4)	(65.5)	(77.6)					
Total Births	2,781	2,954	3,086	3,077	3,233	2,976	2,850	2,737	2,762	2,604	29,060				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 13

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth British Columbia, 1991-2000

14 Thompson Cariboo HSDA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	5	5	10	4	4	8	4	5	5	2	52	77.5	0.67	-	2.26
anencephalus & similar defects	-	-	-	-	1	2	1	-	-	-	4	4.0	0.99		0.17
neural tube defects	1	2	2	-	2	-	-	1	4	-	12	20.2	0.59		0.52
hydrocephalus	3	1	2	-	-	1	-	1	-	-	8	10.7	0.75		0.35
other nervous system defects	1	2	6	4	1	5	3	3	1	2	28	42.4	0.66	-	1.22
Anomalies of Eye	-	2	1	1	4	-	2	1	1	1	13	23.5	0.55	-	0.57
Anomalies of Ear, Face, Neck	3	5	2	1	5	8	1	5	1	8	39	49.2	0.79		1.70
Anomalies of Heart	8	11	20	27	29	40	44	20	27	34	260	236.6	1.10		11.32
transposition of great vessels	-	-	-	-	1	1	4	-	4	1	11	13.1	0.84		0.48
tetralogy of Fallot	2	1	-	-	2	-	1	-	-	1	7	9.3	0.75		0.30
ventricular septal defect	-	1	5	7	7	14	8	7	6	9	64	60.4	1.06		2.79
hypoplastic left heart syndrome	-	-	-	-	-	1	1	1	1	1	5	5.8	0.86		0.22
other heart anomalies	6	9	15	20	19	24	30	12	16	22	173	147.9	1.17	+	7.53
Other Circulatory System Anomalies	4	7	6	21	30	38	31	16	31	24	208	168.7	1.23	+	9.05
patent ductus arteriosus	2	2	2	12	10	22	16	10	20	15	111	81.1	1.37	+	4.83
Anomalies of Respiratory System	5	2	5	6	2	6	4	3	2	2	37	42.3	0.87		1.61
Cleft Palate/Cleft Lip	7	8	10	7	3	7	12	1	2	7	64	64.6	0.99		2.79
Anomalies of Upper Alimentary Tract	1	-	3	7	6	4	5	4	4	8	42	64.4	0.65	-	1.83
tracheoesophageal fistula	-	-	-	-	2	-	-	-	-	1	3	6.7	0.44		0.13
pyloric stenosis	-	-	-	1	-	2	4	2	1	5	15	15.9	0.94		0.65
other anomalies of alimentary tract	1	-	3	6	4	2	1	2	3	2	24	41.7	0.58	-	1.04
Other Anomalies of Digestive System	-	3	5	1	6	3	8	1	9	4	40	47.4	0.84		1.74
Anomalies of Genital Organs	13	9	12	17	14	28	16	16	18	14	157	163.2	0.96		6.83
Anomalies of Urinary System	4	4	8	8	12	8	8	6	10	5	73	97.7	0.75	-	3.18
renal agenesis	-	1	1	2	2	-	-	-	1	-	7	12.8	0.55		0.30
cystic kidney disease	1	-	2	1	2	1	1	1	-	-	9	14.3	0.63		0.39
other urinary anomalies	3	3	5	5	8	7	7	5	9	5	57	70.5	0.81		2.48
Congenital Musculoskeletal Deformities	22	34	21	32	31	48	35	35	52	40	350	415.9	0.84	-	15.23
anomalies of spine	-	1	1	2	-	-	3	-	-	1	8	8.3	0.97		0.35
congenital dislocation of hip	7	9	5	2	8	15	6	8	8	4	72	129.9	0.55	-	3.13
varus, valgus, clubfoot	3	3	3	8	5	7	10	6	21	14	80	84.5	0.95		3.48
polydactyly, syndactyly	3	8	2	3	3	3	3	6	6	6	43	39.0	1.10		1.87
limb reductions	1	5	-	4	3	2	1	3	-	2	21	13.6	1.54	+	0.91
chondro/ osteo dystrophies	1	-	1	1	-	1	-	-	-	-	4	6.7	0.59		0.17
other musculoskeletal deformities	7	8	9	12	12	20	12	12	17	13	122	133.8	0.91		5.31
Anomalies of the Integument	2	5	-	6	7	12	4	5	9	17	67	74.3	0.90		2.92
hemangioma and lymphangioma	1	2	-	-	2	4	1	-	2	5	17	14.6	1.16		0.74
other anomalies of integument	1	3	-	6	5	8	3	5	7	12	50	59.7	0.84		2.18
Fetal Alcohol Spectrum Disorder	-	-	-	6	3	7	6	3	-	2	27	42.0	0.64	-	1.18
Chromosomal Anomalies	3	8	2	6	10	7	5	5	2	5	53	69.4	0.76	-	2.31
Down's syndrome	3	3	2	2	4	1	1	1	-	2	19	34.2	0.55	-	0.83
other chromosomal anomalies	-	5	-	4	6	6	4	4	2	3	34	34.9	0.97		1.48
Multiple & Multiple System Anomalies	2	1	-	4	4	5	6	1	1	3	27	31.2	0.87		1.18
Other and Unspecified Anomalies	3	1	2	2	1	4	4	1	4	4	26	25.2	1.03		1.13
Total Diagnoses	82	105	107	156	171	233	195	128	178	180	1,535	1,693.2	0.91	-	66.81
(Rate /1,000 total births)	(34.3)	(44.8)	(45.6)	(64.0)	(71.0)	(95.6)	(82.5)	(56.3)	(86.8)	(93.8)					
Total Cases	61	77	65	100	103	142	111	83	111	113	966	1,095.6	0.88	-	42.05
(Rate /1,000 total births)	(25.5)	(32.9)	(27.7)	(41.1)	(42.7)	(58.3)	(46.9)	(36.5)	(54.1)	(58.9)					
Total Births	2,394	2,342	2,349	2,436	2,410	2,437	2,365	2,272	2,050	1,919	22,974				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 14

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth
British Columbia, 1991-2000

21 Fraser Valley HSDA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	7	5	8	14	18	15	12	2	4	4	89	106.0	0.84		2.83
anencephalus & similar defects	-	-	2	1	3	1	-	-	-	1	8	5.5	1.45		0.25
neural tube defects	2	3	3	7	6	3	1	-	2	-	27	27.6	0.98		0.86
hydrocephalus	1	1	-	1	2	4	1	-	1	1	12	14.6	0.82		0.38
other nervous system defects	4	1	3	5	7	7	10	2	1	2	42	57.9	0.73	-	1.34
Anomalies of Eye	1	1	1	-	11	4	5	6	2	-	31	32.1	0.96		0.99
Anomalies of Ear, Face, Neck	3	8	4	6	9	3	12	3	5	3	56	67.3	0.83		1.78
Anomalies of Heart	19	29	26	20	28	51	34	42	26	17	292	323.4	0.90		9.30
transposition of great vessels	2	3	-	2	1	2	2	6	4	-	22	18.0	1.23		0.70
tetralogy of Fallot	2	2	1	3	-	1	2	1	-	-	12	12.7	0.94		0.38
ventricular septal defect	7	7	9	1	8	11	11	8	5	6	73	82.6	0.88		2.32
hypoplastic left heart syndrome	-	-	-	-	-	-	-	1	-	1	2	8.0	0.25	(-)	0.06
other heart anomalies	8	17	16	14	19	37	19	26	17	10	183	202.2	0.91		5.83
Other Circulatory System Anomalies	7	16	8	17	19	42	23	22	13	11	178	230.6	0.77	-	5.67
patent ductus arteriosus	2	6	4	8	7	19	11	10	8	2	77	110.9	0.69	-	2.45
Anomalies of Respiratory System	4	10	6	5	5	9	3	2	2	4	50	57.8	0.86		1.59
Cleft Palate/Cleft Lip	4	11	10	9	6	4	13	10	11	4	82	88.3	0.93		2.61
Anomalies of Upper Alimentary Tract	4	5	3	8	9	8	4	9	6	11	67	88.0	0.76	-	2.13
tracheoesophageal fistula	2	1	-	1	1	-	-	-	-	-	5	9.2	0.54		0.16
pyloric stenosis	1	2	-	1	-	4	-	4	2	2	16	21.7	0.74		0.51
other anomalies of alimentary tract	1	2	3	6	8	4	4	5	4	9	46	57.0	0.81		1.46
Other Anomalies of Digestive System	5	3	5	3	7	13	3	1	5	5	50	64.8	0.77		1.59
Anomalies of Genital Organs	12	12	19	24	30	30	20	9	14	7	177	223.0	0.79	-	5.64
Anomalies of Urinary System	13	20	16	10	7	14	10	5	8	13	116	133.5	0.87		3.69
renal agenesis	3	4	2	1	1	3	3	-	-	5	22	17.5	1.26		0.70
cystic kidney disease	1	3	3	-	-	6	-	-	-	3	16	19.6	0.82		0.51
other urinary anomalies	9	13	11	9	6	5	7	5	8	5	78	96.4	0.81		2.48
Congenital Musculoskeletal Deformities	24	36	25	55	42	60	45	24	35	37	383	568.4	0.67	-	12.20
anomalies of spine	-	-	1	4	1	1	-	-	-	1	8	11.3	0.71		0.25
congenital dislocation of hip	6	5	4	16	9	17	13	5	10	7	92	177.5	0.52	-	2.93
varus, valgus, clubfoot	4	13	5	14	8	14	10	8	9	14	99	115.5	0.86		3.15
polydactyly, syndactyly	1	3	5	5	5	6	7	4	6	2	44	53.3	0.83		1.40
limb reductions	1	2	1	1	3	3	-	1	1	4	17	18.6	0.91		0.54
chondro/ osteo dystrophies	1	2	2	1	-	1	1	-	-	-	8	9.2	0.87		0.25
other musculoskeletal deformities	11	11	7	14	16	18	14	6	9	9	115	182.9	0.63	-	3.66
Anomalies of the Integument	5	8	2	6	8	9	8	5	4	1	56	101.6	0.55	-	1.78
hemangioma and lymphangioma	-	2	-	2	5	3	1	-	-	1	14	20.0	0.70		0.45
other anomalies of integument	5	6	2	4	3	6	7	5	4	-	42	81.6	0.51	-	1.34
Fetal Alcohol Spectrum Disorder	-	-	-	1	2	6	1	5	5	6	26	57.4	0.45	-	0.83
Chromosomal Anomalies	9	5	5	5	11	20	14	5	8	5	87	94.9	0.92		2.77
Down's syndrome	8	4	4	4	4	11	7	2	6	3	53	46.8	1.13		1.69
other chromosomal anomalies	1	1	1	1	7	9	7	3	2	2	34	47.7	0.71	-	1.08
Multiple & Multiple System Anomalies	2	3	5	6	4	4	9	1	3	-	37	42.6	0.87		1.18
Other and Unspecified Anomalies	2	5	2	2	6	4	2	2	1	2	28	34.4	0.81		0.89
Total Diagnoses	121	177	145	191	222	296	218	153	152	130	1,805	2,314.2	0.78	-	57.48
(Rate /1,000 total births)	(41.1)	(55.0)	(45.9)	(57.9)	(67.4)	(90.6)	(68.3)	(49.5)	(49.9)	(44.9)					
Total Cases	84	101	94	137	133	181	123	81	93	82	1,109	1,497.4	0.74	-	35.32
(Rate /1,000 total births)	(28.6)	(31.4)	(29.7)	(41.6)	(40.4)	(55.4)	(38.5)	(26.2)	(30.5)	(28.3)					
Total Births	2,942	3,218	3,162	3,296	3,293	3,267	3,191	3,090	3,045	2,896	31,400				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 15

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth
British Columbia, 1991-2000

22 Simon Fraser HSDA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	**17**	**28**	**19**	**26**	**21**	**38**	**23**	**14**	**20**	**11**	**217**	**200.2**	**1.08**		**3.66**
anencephalus & similar defects	1	1	-	4	1	3	-	-	2	-	12	10.4	1.15		0.20
neural tube defects	3	9	4	1	5	11	3	5	6	1	48	52.1	0.92		0.81
hydrocephalus	3	3	3	6	2	1	3	-	3	3	27	27.6	0.98		0.46
other nervous system defects	10	15	12	15	13	23	17	9	9	7	130	109.4	1.19	+	2.19
Anomalies of Eye	**6**	**6**	**6**	**4**	**3**	**7**	**7**	**4**	**3**	**2**	**48**	**60.7**	**0.79**		**0.81**
Anomalies of Ear, Face, Neck	**10**	**7**	**4**	**8**	**14**	**24**	**22**	**12**	**18**	**20**	**139**	**127.1**	**1.09**		**2.34**
Anomalies of Heart	**39**	**29**	**23**	**64**	**73**	**67**	**49**	**59**	**36**	**45**	**484**	**611.0**	**0.79**	-	**8.16**
transposition of great vessels	3	1	-	2	6	5	3	2	1	3	26	33.9	0.77		0.44
tetralogy of Fallot	3	2	-	3	1	3	2	3	4	-	21	24.0	0.87		0.35
ventricular septal defect	11	11	6	14	12	20	14	13	12	15	128	156.0	0.82	-	2.16
hypoplastic left heart syndrome	3	1	2	-	1	4	-	1	1	-	13	15.0	0.86		0.22
other heart anomalies	19	14	15	45	53	35	30	40	18	27	296	382.0	0.77	-	4.99
Other Circulatory System Anomalies	**19**	**25**	**23**	**42**	**68**	**55**	**54**	**59**	**64**	**35**	**444**	**435.6**	**1.02**		**7.48**
patent ductus arteriosus	8	7	8	17	26	26	34	34	34	27	221	209.5	1.06		3.73
Anomalies of Respiratory System	**11**	**6**	**8**	**4**	**15**	**14**	**18**	**9**	**12**	**4**	**101**	**109.3**	**0.92**		**1.70**
Cleft Palate/Cleft Lip	**13**	**14**	**18**	**14**	**10**	**18**	**25**	**29**	**17**	**8**	**166**	**166.8**	**0.99**		**2.80**
Anomalies of Upper Alimentary Tract	**9**	**13**	**7**	**20**	**12**	**28**	**32**	**17**	**52**	**56**	**246**	**166.2**	**1.48**	+	**4.15**
tracheoesophageal fistula	1	1	1	5	-	1	1	1	1	2	14	17.4	0.80		0.24
pyloric stenosis	1	9	3	2	6	5	6	4	11	5	52	41.0	1.27		0.88
other anomalies of alimentary tract	7	3	3	13	6	22	25	12	40	49	180	107.7	1.67	+	3.03
Other Anomalies of Digestive System	**8**	**9**	**8**	**12**	**12**	**9**	**21**	**7**	**10**	**19**	**115**	**122.5**	**0.94**		**1.94**
Anomalies of Genital Organs	**36**	**35**	**43**	**59**	**34**	**70**	**61**	**50**	**59**	**57**	**504**	**421.3**	**1.20**	+	**8.50**
Anomalies of Urinary System	**24**	**33**	**23**	**29**	**29**	**19**	**31**	**18**	**28**	**18**	**252**	**252.2**	**1.00**		**4.25**
renal agenesis	3	3	3	4	3	1	4	1	1	4	27	33.0	0.82		0.46
cystic kidney disease	3	4	8	2	5	4	3	-	2	4	35	37.0	0.95		0.59
other urinary anomalies	18	26	12	23	21	14	24	17	25	10	190	182.1	1.04		3.20
Congenital Musculoskeletal Deformities	**96**	**89**	**79**	**159**	**87**	**149**	**159**	**140**	**122**	**142**	**1,222**	**1,073.9**	**1.14**	+	**20.60**
anomalies of spine	2	3	3	6	1	2	1	1	3	1	23	21.4	1.08		0.39
congenital dislocation of hip	35	25	26	81	34	71	61	44	41	62	480	335.4	1.43	+	8.09
varus, valgus, clubfoot	12	17	20	20	18	24	27	21	30	28	217	218.2	0.99		3.66
polydactyly, syndactyly	7	8	10	11	4	13	12	8	8	11	92	100.7	0.91		1.55
limb reductions	5	9	1	4	3	1	3	4	3	5	38	35.1	1.08		0.64
chondro/ osteo dystrophies	4	3	1	-	2	3	-	4	-	2	19	17.4	1.09		0.32
other musculoskeletal deformities	31	24	18	37	25	35	54	58	37	33	352	345.6	1.02		5.93
Anomalies of the Integument	**6**	**4**	**13**	**41**	**6**	**30**	**28**	**18**	**39**	**44**	**229**	**191.9**	**1.19**	+	**3.86**
hemangioma and lymphangioma	1	-	3	7	2	6	4	5	8	2	38	37.7	1.01		0.64
other anomalies of integument	5	4	10	34	4	24	24	13	31	42	191	154.2	1.24	+	3.22
Fetal Alcohol Spectrum Disorder	**-**	**2**	**-**	**5**	**5**	**7**	**13**	**13**	**10**	**7**	**62**	**108.4**	**0.57**	-	**1.05**
Chromosomal Anomalies	**18**	**19**	**8**	**23**	**15**	**12**	**19**	**16**	**14**	**16**	**160**	**179.2**	**0.89**		**2.70**
Down's syndrome	13	6	6	9	7	8	8	6	8	8	79	88.4	0.89		1.33
other chromosomal anomalies	4	13	2	14	8	4	11	10	6	8	80	90.1	0.89		1.35
Multiple & Multiple System Anomalies	**7**	**11**	**7**	**14**	**5**	**5**	**7**	**5**	**8**	**5**	**74**	**80.5**	**0.92**		**1.25**
Other and Unspecified Anomalies	**7**	**6**	**2**	**5**	**10**	**6**	**4**	**7**	**3**	**1**	**51**	**65.1**	**0.78**		**0.86**
Total Diagnoses	**326**	**336**	**291**	**529**	**419**	**558**	**573**	**477**	**515**	**490**	**4,514**	**4,371.9**	**1.03**	+	**76.09**
(Rate /1,000 total births)	**(55.4)**	**(55.9)**	**(49.4)**	**(86.2)**	**(68.2)**	**(91.4)**	**(96.8)**	**(82.3)**	**(90.3)**	**(85.5)**					
Total Cases	**239**	**228**	**219**	**337**	**246**	**375**	**385**	**301**	**389**	**358**	**3,077**	**2,828.9**	**1.09**	+	**51.87**
(Rate /1,000 total births)	**(40.6)**	**(37.9)**	**(37.2)**	**(54.9)**	**(40.0)**	**(61.4)**	**(65.1)**	**(51.9)**	**(68.2)**	**(62.5)**					
Total Births	**5,883**	**6,015**	**5,892**	**6,135**	**6,146**	**6,105**	**5,917**	**5,795**	**5,702**	**5,731**	**59,321**				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p < 0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 16

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth British Columbia, 1991-2000

23 South Fraser HSDA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	14	32	21	14	30	28	30	21	14	5	209	249.8	0.84	-	2.82
anencephalus & similar defects	1	5	1	1	4	-	-	1	1	1	15	13.0	1.15		0.20
neural tube defects	5	19	7	4	3	12	6	4	7	-	67	65.1	1.03		0.91
hydrocephalus	2	1	4	3	4	-	2	3	1	-	20	34.4	0.58	-	0.27
other nervous system defects	6	7	9	6	19	15	22	13	5	4	106	136.5	0.78	-	1.43
Anomalies of Eye	7	2	4	6	3	6	3	11	1	10	53	75.8	0.70	-	0.72
Anomalies of Ear, Face, Neck	16	7	12	17	13	14	21	18	15	16	149	158.6	0.94		2.01
Anomalies of Heart	83	71	40	35	84	111	94	93	58	58	727	762.3	0.95		9.82
transposition of great vessels	8	2	-	1	7	8	6	9	10	4	55	42.3	1.30		0.74
tetralogy of Fallot	4	4	3	1	3	3	2	2	-	4	26	30.0	0.87		0.35
ventricular septal defect	20	12	13	8	15	22	23	23	13	13	162	194.7	0.83	-	2.19
hypoplastic left heart syndrome	-	5	1	2	4	4	1	2	1	-	20	18.8	1.07		0.27
other heart anomalies	51	48	23	23	55	74	62	57	34	37	464	476.6	0.97		6.27
Other Circulatory System Anomalies	35	28	31	24	50	68	62	46	30	19	393	543.5	0.72	-	5.31
patent ductus arteriosus	13	12	15	10	22	27	25	19	20	13	176	261.4	0.67	-	2.38
Anomalies of Respiratory System	19	10	9	11	15	22	18	16	5	13	138	136.4	1.01		1.86
Cleft Palate/Cleft Lip	18	15	18	24	15	17	15	19	24	33	198	208.2	0.95		2.68
Anomalies of Upper Alimentary Tract	21	15	14	14	33	19	25	21	50	57	269	207.3	1.30	+	3.63
tracheoesophageal fistula	3	2	2	-	4	1	2	4	1	1	20	21.7	0.92		0.27
pyloric stenosis	12	11	9	2	14	2	5	6	8	13	82	51.2	1.60	+	1.11
other anomalies of alimentary tract	6	2	3	12	15	16	18	11	41	43	167	134.4	1.24	+	2.26
Other Anomalies of Digestive System	12	24	10	8	18	19	17	22	14	9	153	152.8	1.00		2.07
Anomalies of Genital Organs	24	49	21	53	51	67	53	29	42	46	435	525.7	0.83	-	5.88
Anomalies of Urinary System	48	53	30	12	30	28	31	20	27	24	303	314.7	0.96		4.09
renal agenesis	3	11	2	-	5	6	1	3	5	4	40	41.2	0.97		0.54
cystic kidney disease	12	4	5	-	5	4	9	3	2	4	48	46.1	1.04		0.65
other urinary anomalies	32	38	23	12	20	18	21	14	20	16	214	227.3	0.94		2.89
Congenital Musculoskeletal Deformities	106	114	102	109	101	188	183	132	151	167	1,353	1,339.9	1.01		18.28
anomalies of spine	-	5	2	1	-	4	3	3	-	1	19	26.7	0.71		0.26
congenital dislocation of hip	34	34	33	35	24	84	56	37	79	97	513	418.5	1.23	+	6.93
varus, valgus, clubfoot	12	20	18	13	14	39	24	27	23	27	217	272.2	0.80	-	2.93
polydactyly, syndactyly	13	14	10	9	14	12	17	14	9	20	132	125.7	1.05		1.78
limb reductions	4	2	6	1	2	10	6	7	2	4	44	43.8	1.00		0.59
chondro/ osteo dystrophies	-	3	-	2	2	1	5	5	3	-	21	21.7	0.97		0.28
other musculoskeletal deformities	43	36	33	48	45	38	72	39	35	18	407	431.1	0.94		5.50
Anomalies of the Integument	9	20	14	18	11	12	23	7	26	31	171	239.5	0.71	-	2.31
hemangioma and lymphangioma	2	2	2	3	2	3	5	-	4	2	25	47.1	0.53	-	0.34
other anomalies of integument	7	18	12	15	9	9	18	7	22	29	146	192.4	0.76	-	1.97
Fetal Alcohol Spectrum Disorder	-	2	-	14	12	21	23	33	178	135	418	135.2	3.09	+	5.65
Chromosomal Anomalies	21	20	15	13	20	29	24	28	9	13	192	223.6	0.86	-	2.59
Down's syndrome	12	5	13	5	11	11	11	13	3	6	90	110.3	0.82		1.22
other chromosomal anomalies	9	14	2	8	9	18	13	15	6	7	101	112.5	0.90		1.36
Multiple & Multiple System Anomalies	13	8	3	14	12	7	17	7	6	4	91	100.5	0.91		1.23
Other and Unspecified Anomalies	8	6	5	10	12	10	19	10	7	6	93	81.2	1.15		1.26
Total Diagnoses	454	476	349	396	510	666	658	533	657	646	5,345	5,454.9	0.98		72.21
(Rate /1,000 total births)	(64.0)	(63.5)	(47.3)	(52.2)	(66.1)	(88.9)	(87.9)	(69.9)	(91.3)	(93.2)					
Total Cases	272	309	232	265	301	413	373	290	517	481	3,453	3,529.7	0.98		46.65
(Rate /1,000 total births)	(38.4)	(41.2)	(31.4)	(34.9)	(39.0)	(55.1)	(49.8)	(38.0)	(71.8)	(69.4)					
Total Births	7,090	7,493	7,385	7,589	7,717	7,492	7,489	7,629	7,199	6,933	74,016				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 17

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth
British Columbia, 1991-2000

31 Richmond HSDA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	**6**	**7**	**2**	**1**	**5**	**1**	**4**	**2**	**3**	**1**	**32**	**56.5**	**0.57**	**-**	**1.91**
anencephalus & similar defects	1	-	-	-	-	-	-	-	-	-	1	2.9	0.34		0.06
neural tube defects	1	3	-	-	1	-	2	-	1	-	8	14.7	0.54		0.48
hydrocephalus	-	1	-	1	1	1	-	-	-	-	4	7.8	0.51		0.24
other nervous system defects	4	3	2	-	3	-	2	2	2	1	19	30.9	0.62	-	1.13
Anomalies of Eye	**4**	**-**	**1**	**1**	**2**	**-**	**-**	**1**	**1**	**-**	**10**	**17.1**	**0.58**		**0.60**
Anomalies of Ear, Face, Neck	**3**	**3**	**-**	**3**	**2**	**2**	**2**	**5**	**2**	**3**	**25**	**35.9**	**0.70**		**1.49**
Anomalies of Heart	**14**	**4**	**9**	**24**	**8**	**19**	**14**	**31**	**13**	**16**	**152**	**172.4**	**0.88**		**9.08**
transposition of great vessels	-	-	1	2	-	2	1	1	1	3	11	9.6	1.15		0.66
tetralogy of Fallot	2	-	-	-	-	-	-	-	-	1	3	6.8	0.44		0.18
ventricular septal defect	4	3	3	2	3	4	5	7	5	4	40	44.0	0.91		2.39
hypoplastic left heart syndrome	-	-	-	1	1	-	1	2	-	-	5	4.2	1.18		0.30
other heart anomalies	8	1	5	19	4	13	7	21	7	8	93	107.8	0.86		5.55
Other Circulatory System Anomalies	**11**	**8**	**10**	**12**	**10**	**15**	**10**	**14**	**8**	**9**	**107**	**122.9**	**0.87**		**6.39**
patent ductus arteriosus	3	2	3	5	4	4	6	9	4	6	46	59.1	0.78		2.75
Anomalies of Respiratory System	**3**	**-**	**-**	**2**	**2**	**1**	**2**	**3**	**1**	**3**	**17**	**30.8**	**0.55**	**-**	**1.02**
Cleft Palate/Cleft Lip	**13**	**2**	**4**	**6**	**3**	**2**	**2**	**8**	**6**	**4**	**50**	**47.1**	**1.06**		**2.99**
Anomalies of Upper Alimentary Tract	**1**	**3**	**1**	**3**	**2**	**1**	**6**	**4**	**3**	**4**	**28**	**46.9**	**0.60**	**-**	**1.67**
tracheoesophageal fistula	-	-	-	1	-	-	1	-	-	-	2	4.9	0.41		0.12
pyloric stenosis	1	3	1	1	2	1	-	1	1	2	13	11.6	1.12		0.78
other anomalies of alimentary tract	-	-	-	1	-	-	5	3	2	2	13	30.4	0.43	-	0.78
Other Anomalies of Digestive System	**7**	**2**	**3**	**2**	**5**	**1**	**3**	**-**	**3**	**-**	**26**	**34.6**	**0.75**		**1.55**
Anomalies of Genital Organs	**5**	**8**	**4**	**7**	**6**	**12**	**12**	**7**	**9**	**8**	**78**	**118.9**	**0.66**	**-**	**4.66**
Anomalies of Urinary System	**10**	**7**	**17**	**5**	**8**	**10**	**6**	**5**	**7**	**1**	**76**	**71.2**	**1.07**		**4.54**
renal agenesis	2	2	2	1	1	2	-	-	-	-	10	9.3	1.07		0.60
cystic kidney disease	1	-	-	1	3	3	-	-	-	-	8	10.4	0.77		0.48
other urinary anomalies	7	5	15	3	4	5	6	5	7	1	58	51.4	1.13		3.46
Congenital Musculoskeletal Deformities	**30**	**23**	**18**	**30**	**24**	**27**	**22**	**27**	**35**	**30**	**266**	**303.1**	**0.88**	**-**	**15.89**
anomalies of spine	-	1	-	-	-	-	-	-	-	-	1	6.0	0.17	(-)	0.06
congenital dislocation of hip	11	7	9	9	7	11	8	10	15	17	104	94.7	1.10		6.21
varus, valgus, clubfoot	9	2	2	5	6	10	8	2	3	1	48	61.6	0.78		2.87
polydactyly, syndactyly	3	3	2	2	-	1	1	2	3	2	19	28.4	0.67		1.13
limb reductions	-	1	1	-	3	1	-	-	1	1	8	9.9	0.81		0.48
chondro/ osteo dystrophies	-	-	-	-	-	1	-	-	1	-	2	4.9	0.41		0.12
other musculoskeletal deformities	7	9	4	14	8	3	5	13	12	9	84	97.5	0.86		5.02
Anomalies of the Integument	**5**	**2**	**4**	**11**	**4**	**6**	**4**	**2**	**9**	**3**	**50**	**54.2**	**0.92**		**2.99**
hemangioma and lymphangioma	1	1	1	-	-	2	1	-	1	-	7	10.7	0.66		0.42
other anomalies of integument	4	1	3	11	4	4	3	2	8	3	43	43.5	0.99		2.57
Fetal Alcohol Spectrum Disorder	**-**	**1**	**-**	**-**	**-**	**2**	**-**	**1**	**1**	**-**	**5**	**30.6**	**0.16**	**-**	**0.30**
Chromosomal Anomalies	**9**	**4**	**7**	**8**	**4**	**3**	**5**	**6**	**2**	**6**	**54**	**50.6**	**1.07**		**3.23**
Down's syndrome	5	1	7	4	1	2	4	2	-	3	29	25.0	1.16		1.73
other chromosomal anomalies	4	3	-	4	3	1	1	4	2	3	25	25.4	0.98		1.49
Multiple & Multiple System Anomalies	**2**	**4**	**2**	**1**	**2**	**4**	**1**	**1**	**3**	**-**	**20**	**22.7**	**0.88**		**1.19**
Other and Unspecified Anomalies	**3**	**-**	**1**	**1**	**1**	**2**	**3**	**6**	**-**	**1**	**18**	**18.4**	**0.98**		**1.08**
Total Diagnoses	**126**	**78**	**83**	**117**	**88**	**108**	**96**	**123**	**106**	**89**	**1,014**	**1,233.9**	**0.82**	**-**	**60.57**
(Rate /1,000 total births)	**(72.6)**	**(44.7)**	**(48.9)**	**(71.1)**	**(49.2)**	**(63.6)**	**(57.8)**	**(74.4)**	**(69.1)**	**(56.0)**					
Total Cases	**83**	**57**	**59**	**71**	**52**	**76**	**71**	**66**	**72**	**63**	**670**	**798.4**	**0.84**	**-**	**40.02**
(Rate /1,000 total births)	**(47.8)**	**(32.7)**	**(34.8)**	**(43.2)**	**(29.1)**	**(44.7)**	**(42.8)**	**(39.9)**	**(47.0)**	**(39.6)**					
Total Births	**1,735**	**1,745**	**1,696**	**1,645**	**1,787**	**1,699**	**1,660**	**1,653**	**1,533**	**1,589**	**16,742**				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low, significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 18

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth British Columbia, 1991-2000

32 Vancouver HSDA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	**16**	**10**	**21**	**28**	**36**	**40**	**26**	**32**	**66**	**59**	**334**	**201.6**	**1.66**	**+**	**5.59**
anencephalus & similar defects	-	1	-	-	1	-	1	2	5	3	13	10.5	1.24		0.22
neural tube defects	8	3	4	7	2	6	5	9	19	18	81	52.5	1.54	+	1.36
hydrocephalus	2	-	4	7	6	5	5	3	13	12	57	27.8	2.05	+	0.95
other nervous system defects	6	6	13	14	27	29	15	18	29	26	183	110.2	1.66	+	3.06
Anomalies of Eye	**9**	**5**	**6**	**9**	**14**	**10**	**9**	**8**	**18**	**8**	**96**	**61.1**	**1.57**	**+**	**1.61**
Anomalies of Ear, Face, Neck	**22**	**5**	**5**	**31**	**10**	**18**	**24**	**21**	**30**	**36**	**202**	**128.0**	**1.58**	**+**	**3.38**
Anomalies of Heart	**47**	**40**	**63**	**76**	**92**	**120**	**120**	**168**	**147**	**157**	**1,030**	**615.2**	**1.67**	**+**	**17.24**
transposition of great vessels	2	2	1	1	7	4	5	7	3	11	43	34.2	1.26		0.72
tetralogy of Fallot	2	3	3	1	4	2	3	8	6	10	42	24.2	1.74	+	0.70
ventricular septal defect	18	14	20	29	21	39	35	42	42	46	306	157.1	1.95	+	5.12
hypoplastic left heart syndrome	3	-	2	1	3	3	5	6	6	3	32	15.2	2.11	+	0.54
other heart anomalies	22	21	37	44	57	72	72	105	90	87	607	384.6	1.58	+	10.16
Other Circulatory System Anomalies	**29**	**27**	**30**	**52**	**65**	**139**	**145**	**131**	**95**	**106**	**819**	**438.6**	**1.87**	**+**	**13.71**
patent ductus arteriosus	11	13	9	28	34	83	84	73	53	54	442	210.9	2.10	+	7.40
Anomalies of Respiratory System	**13**	**8**	**12**	**18**	**13**	**28**	**25**	**24**	**40**	**33**	**214**	**110.0**	**1.94**	**+**	**3.58**
Cleft Palate/Cleft Lip	**22**	**19**	**7**	**27**	**11**	**23**	**24**	**20**	**25**	**25**	**203**	**168.0**	**1.21**	**+**	**3.40**
Anomalies of Upper Alimentary Tract	**12**	**15**	**15**	**16**	**14**	**15**	**20**	**11**	**19**	**18**	**155**	**167.3**	**0.93**		**2.59**
tracheoesophageal fistula	2	2	1	4	6	4	6	6	4	4	39	17.5	2.22	+	0.65
pyloric stenosis	10	6	9	8	3	3	5	2	2	4	52	41.3	1.26		0.87
other anomalies of alimentary tract	-	7	5	4	5	8	9	3	13	10	64	108.5	0.59	-	1.07
Other Anomalies of Digestive System	**16**	**16**	**12**	**21**	**14**	**21**	**19**	**33**	**32**	**43**	**227**	**123.3**	**1.84**	**+**	**3.80**
Anomalies of Genital Organs	**48**	**34**	**54**	**46**	**46**	**100**	**75**	**64**	**98**	**77**	**642**	**424.2**	**1.51**	**+**	**10.75**
Anomalies of Urinary System	**27**	**23**	**35**	**45**	**29**	**60**	**47**	**72**	**61**	**57**	**456**	**254.0**	**1.80**	**+**	**7.63**
renal agenesis	2	3	3	10	2	6	4	6	12	9	57	33.2	1.72	+	0.95
cystic kidney disease	1	6	2	7	4	6	7	15	11	13	72	37.2	1.93	+	1.21
other urinary anomalies	24	14	30	28	23	48	36	51	38	35	327	183.4	1.78	+	5.47
Congenital Musculoskeletal Deformities	**149**	**128**	**139**	**146**	**86**	**193**	**191**	**189**	**314**	**240**	**1,775**	**1,081.3**	**1.64**	**+**	**29.72**
anomalies of spine	1	-	6	-	1	2	6	8	6	7	37	21.5	1.72	+	0.62
congenital dislocation of hip	69	87	68	54	18	77	73	73	132	105	756	337.7	2.24	+	12.66
varus, valgus, clubfoot	28	18	27	30	18	35	39	29	54	40	318	219.7	1.45	+	5.32
polydactyly, syndactyly	14	9	11	10	9	17	7	16	21	12	126	101.4	1.24	+	2.11
limb reductions	8	1	1	3	2	4	5	3	6	5	38	35.4	1.07		0.64
chondro/ osteo dystrophies	3	-	4	-	1	4	5	4	5	4	30	17.5	1.71	+	0.50
other musculoskeletal deformities	26	13	22	49	37	54	56	56	90	67	470	347.9	1.35	+	7.87
Anomalies of the Integument	**13**	**13**	**18**	**35**	**13**	**40**	**32**	**21**	**48**	**48**	**281**	**193.2**	**1.45**	**+**	**4.70**
hemangioma and lymphangioma	2	4	1	4	4	9	8	5	14	18	69	38.0	1.82	+	1.16
other anomalies of integument	11	9	17	31	9	31	24	16	34	30	212	155.2	1.37	+	3.55
Fetal Alcohol Spectrum Disorder	**1**	**2**	**1**	**8**	**3**	**11**	**21**	**21**	**11**	**5**	**84**	**109.1**	**0.77**	**-**	**1.41**
Chromosomal Anomalies	**16**	**16**	**18**	**20**	**26**	**37**	**34**	**37**	**52**	**62**	**318**	**180.5**	**1.76**	**+**	**5.32**
Down's syndrome	6	4	6	11	10	16	17	19	19	25	133	89.0	1.49	+	2.23
other chromosomal anomalies	10	12	12	9	16	21	17	18	33	37	185	90.8	2.04	+	3.10
Multiple & Multiple System Anomalies	**8**	**11**	**6**	**12**	**13**	**15**	**15**	**26**	**29**	**32**	**167**	**81.1**	**2.06**	**+**	**2.80**
Other and Unspecified Anomalies	**9**	**2**	**8**	**8**	**10**	**8**	**8**	**18**	**14**	**14**	**99**	**65.5**	**1.51**	**+**	**1.66**
Total Diagnoses	**457**	**374**	**450**	**598**	**495**	**878**	**835**	**896**	**1,099**	**1,020**	**7,102**	**4,402.2**	**1.61**	**+**	**118.90**
(Rate /1,000 total births)	**(79.9)**	**(64.5)**	**(73.8)**	**(95.9)**	**(77.4)**	**(139.4)**	**(138.6)**	**(161.1)**	**(190.7)**	**(175.0)**					
Total Cases	**339**	**291**	**329**	**389**	**270**	**533**	**518**	**485**	**686**	**628**	**4,468**	**2,848.5**	**1.57**	**+**	**74.80**
(Rate /1,000 total births)	**(59.3)**	**(50.2)**	**(53.9)**	**(62.4)**	**(42.2)**	**(84.6)**	**(86.0)**	**(87.2)**	**(119.0)**	**(107.8)**					
Total Births	**5,721**	**5,802**	**6,101**	**6,238**	**6,398**	**6,297**	**6,024**	**5,561**	**5,763**	**5,827**	**59,732**				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected (p<0.05, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 19

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth British Columbia, 1991-2000

33 North Shore/Coast Garibaldi HSDA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	9	12	6	14	20	10	3	10	3	-	87	92.3	0.94		3.18
anencephalus & similar defects	-	-	-	1	1	-	-	1	-	-	3	4.8	0.62		0.11
neural tube defects	2	3	-	4	3	1	-	1	-	-	14	24.0	0.58	-	0.51
hydrocephalus	3	1	1	1	2	2	-	3	2	-	15	12.7	1.18		0.55
other nervous system defects	4	8	5	8	14	7	3	5	1	-	55	50.4	1.09		2.01
Anomalies of Eye	1	1	1	3	3	1	1	1	2	2	16	28.0	0.57	-	0.59
Anomalies of Ear, Face, Neck	11	-	-	4	2	4	1	8	6	6	42	58.6	0.72	-	1.54
Anomalies of Heart	20	16	19	23	23	33	16	34	17	13	214	281.6	0.76	-	7.83
transposition of great vessels	-	2	2	2	2	-	-	2	-	-	10	15.6	0.64		0.37
tetralogy of Fallot	1	2	-	-	-	1	-	2	3	-	9	11.1	0.81		0.33
ventricular septal defect	7	5	7	7	4	10	4	8	2	1	55	71.9	0.76	-	2.01
hypoplastic left heart syndrome	-	-	1	-	-	1	-	1	-	-	3	6.9	0.43		0.11
other heart anomalies	12	7	9	14	17	21	12	21	12	12	137	176.0	0.78	-	5.01
Other Circulatory System Anomalies	13	15	8	10	20	32	10	27	11	3	149	200.7	0.74	-	5.45
patent ductus arteriosus	2	4	2	3	9	11	5	10	7	3	56	96.5	0.58	-	2.05
Anomalies of Respiratory System	6	5	3	6	3	5	4	1	1	-	34	50.4	0.68	-	1.24
Cleft Palate/Cleft Lip	4	9	6	4	8	4	8	1	8	4	56	76.9	0.73	-	2.05
Anomalies of Upper Alimentary Tract	7	6	3	6	3	5	5	3	12	7	57	76.6	0.74	-	2.09
tracheoesophageal fistula	-	2	-	1	-	3	1	-	-	-	7	8.0	0.87		0.26
pyloric stenosis	5	4	2	-	2	-	2	1	2	-	18	18.9	0.95		0.66
other anomalies of alimentary tract	2	-	1	5	1	2	2	2	10	7	32	49.6	0.64	-	1.17
Other Anomalies of Digestive System	4	3	1	5	11	4	4	5	6	2	45	56.4	0.80		1.65
Anomalies of Genital Organs	10	18	15	16	7	25	22	13	22	30	178	194.2	0.92		6.51
Anomalies of Urinary System	3	10	8	11	9	8	12	10	5	14	90	116.2	0.77	-	3.29
renal agenesis	-	3	-	-	-	1	2	-	1	1	8	15.2	0.53		0.29
cystic kidney disease	-	1	3	1	1	1	2	1	-	2	12	17.0	0.70		0.44
other urinary anomalies	3	6	5	10	8	6	8	9	4	11	70	83.9	0.83		2.56
Congenital Musculoskeletal Deformities	50	28	26	37	23	45	61	22	64	54	410	494.9	0.83	-	15.00
anomalies of spine	1	-	-	2	-	1	-	1	1	1	7	9.9	0.71		0.26
congenital dislocation of hip	15	9	7	13	5	21	11	5	13	21	120	154.6	0.78	-	4.39
varus, valgus, clubfoot	10	9	7	4	4	7	22	-	16	11	90	100.5	0.90		3.29
polydactyly, syndactyly	5	2	2	6	2	5	7	3	6	5	43	46.4	0.93		1.57
limb reductions	4	1	1	-	1	-	-	-	3	2	12	16.2	0.74		0.44
chondro/ osteo dystrophies	-	-	2	1	-	1	-	1	-	-	5	8.0	0.62		0.18
other musculoskeletal deformities	15	7	7	11	11	10	21	12	25	14	133	159.2	0.84	-	4.87
Anomalies of the Integument	10	6	5	11	9	10	7	3	21	8	90	88.4	1.02		3.29
hemangioma and lymphangioma	3	-	-	5	1	3	-	-	3	1	16	17.4	0.92		0.59
other anomalies of integument	7	6	5	6	8	7	7	3	18	7	74	71.0	1.04		2.71
Fetal Alcohol Spectrum Disorder	-	-	-	-	-	3	1	-	8	1	13	49.9	0.26	-	0.48
Chromosomal Anomalies	7	8	4	9	10	4	6	15	4	4	71	82.6	0.86		2.60
Down's syndrome	5	4	1	2	4	4	2	8	-	3	33	40.8	0.81		1.21
other chromosomal anomalies	2	4	3	7	6	-	4	7	4	1	38	41.5	0.91		1.39
Multiple & Multiple System Anomalies	3	1	2	-	2	1	2	7	1	4	23	37.1	0.62	-	0.84
Other and Unspecified Anomalies	5	1	3	4	2	5	2	1	1	1	25	30.0	0.83		0.91
Total Diagnoses	163	139	110	163	155	199	165	161	192	153	1,600	2,014.8	0.79	-	58.53
(Rate /1,000 total births)	(56.5)	(46.9)	(38.8)	(57.1)	(56.6)	(71.2)	(62.4)	(63.4)	(75.1)	(60.6)					
Total Cases	113	110	91	105	96	124	105	83	142	105	1,074	1,303.7	0.82	-	39.29
(Rate /1,000 total births)	(39.2)	(37.1)	(32.1)	(36.8)	(35.0)	(44.4)	(39.7)	(32.7)	(55.5)	(41.6)					
Total Births	2,884	2,965	2,833	2,857	2,739	2,794	2,646	2,539	2,557	2,524	27,338				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected (p<0.05, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 20

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth British Columbia, 1991-2000

41 South Vancouver Island HSDA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	**14**	**8**	**7**	**9**	**20**	**23**	**10**	**10**	**5**	**10**	**116**	**128.3**	**0.90**		**3.05**
anencephalus & similar defects	1	1	1	-	-	-	1	-	-	-	4	6.7	0.60		0.11
neural tube defects	2	4	2	2	3	6	2	1	-	2	24	33.4	0.72		0.63
hydrocephalus	4	2	-	1	3	7	1	1	2	2	23	17.7	1.30		0.60
other nervous system defects	7	1	4	6	14	10	6	8	3	6	65	70.1	0.93		1.71
Anomalies of Eye	**3**	**2**	**-**	**6**	**13**	**8**	**2**	**-**	**5**	**3**	**42**	**38.9**	**1.08**		**1.10**
Anomalies of Ear, Face, Neck	**2**	**7**	**5**	**8**	**9**	**13**	**11**	**5**	**11**	**2**	**73**	**81.5**	**0.90**		**1.92**
Anomalies of Heart	**32**	**27**	**22**	**24**	**58**	**54**	**47**	**48**	**21**	**46**	**379**	**391.6**	**0.97**		**9.97**
transposition of great vessels	4	2	1	-	4	3	3	4	-	3	24	21.7	1.10		0.63
tetralogy of Fallot	1	2	1	1	3	6	3	3	3	-	23	15.4	1.49		0.60
ventricular septal defect	8	2	4	8	16	14	6	10	6	13	87	100.0	0.87		2.29
hypoplastic left heart syndrome	-	3	-	2	2	2	-	-	1	3	13	9.6	1.35		0.34
other heart anomalies	19	18	16	13	33	29	35	31	11	27	232	244.8	0.95		6.10
Other Circulatory System Anomalies	**17**	**12**	**7**	**28**	**31**	**29**	**22**	**51**	**20**	**35**	**252**	**279.2**	**0.90**		**6.63**
patent ductus arteriosus	6	2	1	13	17	19	10	31	10	22	131	134.3	0.98		3.45
Anomalies of Respiratory System	**4**	**3**	**3**	**4**	**2**	**5**	**9**	**7**	**7**	**3**	**47**	**70.0**	**0.67**	**-**	**1.24**
Cleft Palate/Cleft Lip	**9**	**7**	**8**	**3**	**10**	**9**	**5**	**12**	**11**	**9**	**83**	**106.9**	**0.78**	**-**	**2.18**
Anomalies of Upper Alimentary Tract	**2**	**1**	**2**	**8**	**3**	**13**	**5**	**1**	**17**	**12**	**64**	**106.5**	**0.60**	**-**	**1.68**
tracheoesophageal fistula	1	-	1	3	-	-	1	-	2	-	8	11.2	0.72		0.21
pyloric stenosis	-	1	-	2	-	2	2	-	1	1	9	26.3	0.34	-	0.24
other anomalies of alimentary tract	1	-	1	3	3	11	2	1	14	11	47	69.0	0.68	-	1.24
Other Anomalies of Digestive System	**7**	**-**	**1**	**3**	**7**	**8**	**3**	**4**	**8**	**4**	**45**	**78.5**	**0.57**	**-**	**1.18**
Anomalies of Genital Organs	**12**	**11**	**17**	**23**	**24**	**29**	**18**	**19**	**28**	**19**	**200**	**270.0**	**0.74**	**-**	**5.26**
Anomalies of Urinary System	**6**	**15**	**7**	**13**	**15**	**10**	**11**	**23**	**10**	**16**	**126**	**161.7**	**0.78**	**-**	**3.31**
renal agenesis	3	8	1	2	1	3	-	1	3	1	23	21.1	1.09		0.60
cystic kidney disease	-	3	-	1	2	4	-	3	-	1	14	23.7	0.59	-	0.37
other urinary anomalies	3	4	6	10	12	3	11	19	7	14	89	116.7	0.76	-	2.34
Congenital Musculoskeletal Deformities	**25**	**21**	**37**	**32**	**64**	**65**	**58**	**52**	**65**	**49**	**468**	**688.3**	**0.68**	**-**	**12.31**
anomalies of spine	-	-	-	-	2	1	4	-	3	-	10	13.7	0.73		0.26
congenital dislocation of hip	-	2	5	5	8	8	11	7	13	9	68	215.0	0.32	-	1.79
varus, valgus, clubfoot	7	6	14	12	12	22	13	12	20	18	136	139.8	0.97		3.58
polydactyly, syndactyly	5	4	2	2	6	1	7	8	10	11	56	64.5	0.87		1.47
limb reductions	1	-	2	-	5	1	1	3	1	-	14	22.5	0.62		0.37
chondro/ osteo dystrophies	-	-	4	1	7	1	1	4	1	1	20	11.2	1.79	+	0.53
other musculoskeletal deformities	12	9	10	12	24	31	21	18	17	10	164	221.5	0.74	-	4.31
Anomalies of the Integument	**5**	**7**	**3**	**12**	**6**	**12**	**5**	**10**	**13**	**17**	**90**	**123.0**	**0.73**	**-**	**2.37**
hemangioma and lymphangioma	1	1	-	6	-	4	-	-	1	4	17	24.2	0.70		0.45
other anomalies of integument	4	6	3	6	6	8	5	10	12	13	73	98.8	0.74	-	1.92
Fetal Alcohol Spectrum Disorder	**-**	**2**	**-**	**1**	**4**	**9**	**5**	**4**	**9**	**5**	**39**	**69.5**	**0.56**	**-**	**1.03**
Chromosomal Anomalies	**6**	**7**	**4**	**7**	**9**	**17**	**15**	**15**	**5**	**15**	**100**	**114.9**	**0.87**		**2.63**
Down's syndrome	4	4	4	5	5	8	14	3	2	10	59	56.7	1.04		1.55
other chromosomal anomalies	2	3	-	2	4	9	1	12	3	5	41	57.8	0.71	-	1.08
Multiple & Multiple System Anomalies	**6**	**3**	**4**	**1**	**12**	**1**	**3**	**7**	**4**	**1**	**42**	**51.6**	**0.81**		**1.10**
Other and Unspecified Anomalies	**3**	**2**	**2**	**4**	**7**	**3**	**4**	**3**	**2**	**3**	**33**	**41.7**	**0.79**		**0.87**
Total Diagnoses	**153**	**135**	**129**	**186**	**294**	**308**	**233**	**271**	**241**	**249**	**2,199**	**2,802.1**	**0.78**	**-**	**57.84**
(Rate /1,000 total births)	**(36.9)**	**(32.4)**	**(31.5)**	**(45.7)**	**(74.5)**	**(82.0)**	**(63.1)**	**(78.2)**	**(71.1)**	**(75.6)**					
Total Cases	**99**	**101**	**94**	**135**	**173**	**205**	**142**	**143**	**177**	**167**	**1,436**	**1,813.2**	**0.79**	**-**	**37.77**
(Rate /1,000 total births)	**(23.9)**	**(24.2)**	**(23.0)**	**(33.2)**	**(43.9)**	**(54.6)**	**(38.5)**	**(41.2)**	**(52.2)**	**(50.7)**					
Total Births	**4,145**	**4,167**	**4,092**	**4,071**	**3,945**	**3,758**	**3,690**	**3,467**	**3,391**	**3,295**	**38,021**				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 21

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth British Columbia, 1991-2000

42 Central Vancouver Island HSDA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	**8**	**7**	**6**	**5**	**9**	**11**	**11**	**10**	**4**	**2**	**73**	**79.4**	**0.92**		**3.10**
anencephalus & similar defects	1	1	-	-	-	-	-	-	-	-	2	4.1	0.48		0.09
neural tube defects	5	5	2	2	2	2	1	3	-	-	22	20.7	1.06		0.94
hydrocephalus	1	-	-	1	1	-	3	-	1	-	7	10.9	0.64		0.30
other nervous system defects	1	1	4	2	5	9	6	7	3	2	40	43.4	0.92		1.70
Anomalies of Eye	**4**	**1**	**2**	**1**	**6**	**9**	**4**	**2**	**1**	-	**30**	**24.1**	**1.25**		**1.28**
Anomalies of Ear, Face, Neck	**3**	**3**	**4**	**6**	**11**	**9**	**6**	**7**	**7**	**4**	**60**	**50.4**	**1.19**		**2.55**
Anomalies of Heart	**14**	**18**	**13**	**13**	**38**	**27**	**34**	**23**	**25**	**16**	**221**	**242.2**	**0.91**		**9.40**
transposition of great vessels	1	-	2	-	2	2	1	-	-	-	8	13.4	0.59		0.34
tetralogy of Fallot	-	-	1	-	2	-	-	2	-	-	5	9.5	0.53		0.21
ventricular septal defect	5	5	5	5	7	6	7	3	5	3	51	61.8	0.82		2.17
hypoplastic left heart syndrome	1	1	-	-	-	-	1	-	-	-	3	6.0	0.50		0.13
other heart anomalies	7	12	5	8	27	19	25	18	20	13	154	151.4	1.02		6.55
Other Circulatory System Anomalies	**6**	**5**	**9**	**21**	**21**	**36**	**21**	**15**	**13**	**21**	**168**	**172.7**	**0.97**		**7.14**
patent ductus arteriosus	1	-	2	5	14	19	10	6	6	9	72	83.0	0.87		3.06
Anomalies of Respiratory System	**12**	**5**	**-**	**3**	**1**	**4**	**5**	**4**	**3**	**2**	**39**	**43.3**	**0.90**		**1.66**
Cleft Palate/Cleft Lip	**3**	**7**	**3**	**4**	**9**	**10**	**3**	**11**	**5**	**6**	**61**	**66.1**	**0.92**		**2.59**
Anomalies of Upper Alimentary Tract	**7**	**4**	**4**	**5**	**11**	**8**	**7**	**5**	**26**	**13**	**90**	**65.9**	**1.37**	**+**	**3.83**
tracheoesophageal fistula	3	-	1	2	2	-	3	1	-	-	12	6.9	1.74		0.51
pyloric stenosis	4	3	2	1	3	3	1	1	1	2	21	16.3	1.29		0.89
other anomalies of alimentary tract	-	1	1	2	6	5	3	3	25	11	57	42.7	1.34	+	2.42
Other Anomalies of Digestive System	**2**	**6**	**1**	**4**	**8**	**6**	**4**	**11**	**3**	**1**	**46**	**48.6**	**0.95**		**1.96**
Anomalies of Genital Organs	**9**	**9**	**9**	**19**	**17**	**18**	**15**	**9**	**17**	**8**	**130**	**167.0**	**0.78**	**-**	**5.53**
Anomalies of Urinary System	**9**	**14**	**4**	**7**	**1**	**13**	**7**	**13**	**18**	**9**	**95**	**100.0**	**0.95**		**4.04**
renal agenesis	4	2	-	-	-	-	-	4	6	-	16	13.1	1.22		0.68
cystic kidney disease	1	2	1	-	-	2	2	3	2	-	13	14.7	0.89		0.55
other urinary anomalies	4	10	3	7	1	11	5	6	10	9	66	72.2	0.91		2.81
Congenital Musculoskeletal Deformities	**33**	**26**	**28**	**26**	**37**	**77**	**40**	**39**	**49**	**28**	**383**	**425.7**	**0.90**	**-**	**16.29**
anomalies of spine	3	1	-	1	1	3	1	2	2	-	14	8.5	1.65		0.60
congenital dislocation of hip	4	-	2	5	5	11	8	6	13	1	55	133.0	0.41	-	2.34
varus, valgus, clubfoot	5	3	13	6	11	21	7	10	5	8	89	86.5	1.03		3.78
polydactyly, syndactyly	2	5	5	3	4	11	3	2	7	3	45	39.9	1.13		1.91
limb reductions	3	1	-	-	2	1	3	1	1	-	12	13.9	0.86		0.51
chondro/ osteo dystrophies	-	-	1	-	-	3	-	-	1	-	5	6.9	0.72		0.21
other musculoskeletal deformities	16	16	7	11	14	27	18	18	20	16	163	137.0	1.19	+	6.93
Anomalies of the Integument	**1**	**7**	**2**	**9**	**11**	**12**	**7**	**4**	**13**	**7**	**73**	**76.1**	**0.96**		**3.10**
hemangioma and lymphangioma	1	1	-	1	3	3	2	2	1	-	14	15.0	0.94		0.60
other anomalies of integument	-	6	2	8	8	9	5	2	12	7	59	61.1	0.97		2.51
Fetal Alcohol Spectrum Disorder	**-**	**-**	**-**	**2**	**-**	**5**	**3**	**-**	**8**	**-**	**18**	**43.0**	**0.42**	**-**	**0.77**
Chromosomal Anomalies	**3**	**8**	**11**	**8**	**12**	**10**	**8**	**7**	**11**	**3**	**81**	**71.1**	**1.14**		**3.44**
Down's syndrome	2	5	4	4	9	8	-	5	3	3	43	35.1	1.23		1.83
other chromosomal anomalies	1	3	7	4	3	2	8	2	8	-	38	35.7	1.06		1.62
Multiple & Multiple System Anomalies	**3**	**2**	**-**	**3**	**4**	**4**	**3**	**5**	**2**	**3**	**29**	**31.9**	**0.91**		**1.23**
Other and Unspecified Anomalies	**2**	**2**	**1**	**1**	**7**	**5**	**3**	**4**	**3**	**2**	**30**	**25.8**	**1.16**		**1.28**
Total Diagnoses	**119**	**124**	**97**	**137**	**203**	**264**	**181**	**169**	**208**	**125**	**1,627**	**1,733.1**	**0.94**	**-**	**69.19**
(Rate /1,000 total births)	**(48.8)**	**(50.8)**	**(39.0)**	**(52.3)**	**(81.3)**	**(103.7)**	**(78.8)**	**(78.3)**	**(96.3)**	**(67.0)**					
Total Cases	**75**	**86**	**81**	**92**	**118**	**154**	**105**	**92**	**134**	**94**	**1,031**	**1,121.4**	**0.92**	**-**	**43.84**
(Rate /1,000 total births)	**(30.8)**	**(35.2)**	**(32.6)**	**(35.1)**	**(47.3)**	**(60.5)**	**(45.7)**	**(42.6)**	**(62.0)**	**(50.3)**					
Total Births	**2,438**	**2,443**	**2,487**	**2,621**	**2,497**	**2,547**	**2,298**	**2,158**	**2,160**	**1,867**	**23,516**				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 22

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth
British Columbia, 1991-2000

43 North Vancouver Island HSDA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	3	3	-	3	2	1	1	-	-	-	13	24.4	0.53	-	1.80
anencephalus & similar defects	-	-	-	-	-	-	-	-	-	-	-	1.3	-		-
neural tube defects	2	-	-	2	1	-	1	-	-	-	6	6.4	0.94		0.83
hydrocephalus	-	-	-	1	-	-	-	-	-	-	1	3.4	0.30		0.14
other nervous system defects	1	3	-	-	1	1	-	-	-	-	6	13.3	0.45	-	0.83
Anomalies of Eye	-	-	-	1	-	1	-	-	2	-	4	7.4	0.54		0.55
Anomalies of Ear, Face, Neck	-	-	1	2	6	1	-	1	-	2	13	15.5	0.84		1.80
Anomalies of Heart	6	-	14	9	3	10	4	5	5	2	58	74.4	0.78		8.02
transposition of great vessels	1	-	1	-	-	1	-	-	-	1	4	4.1	0.97		0.55
tetralogy of Fallot	-	-	1	1	1	-	-	-	-	-	3	2.9	1.02		0.42
ventricular septal defect	3	-	3	1	-	5	1	3	-	1	17	19.0	0.89		2.35
hypoplastic left heart syndrome	-	-	-	-	-	-	-	-	-	-	-	1.8	-		-
other heart anomalies	2	-	9	7	2	4	3	2	5	-	34	46.5	0.73		4.70
Other Circulatory System Anomalies	1	-	5	7	-	3	12	5	5	3	41	53.1	0.77		5.67
patent ductus arteriosus	-	-	1	2	-	2	5	2	3	2	17	25.5	0.67		2.35
Anomalies of Respiratory System	2	1	-	1	2	1	-	-	1	1	9	13.3	0.68		1.25
Cleft Palate/Cleft Lip	3	3	1	3	3	1	4	-	4	-	22	20.3	1.08		3.04
Anomalies of Upper Alimentary Tract	-	1	2	2	-	2	-	2	1	2	12	20.2	0.59		1.66
tracheoesophageal fistula	-	-	-	1	-	-	-	-	-	-	1	2.1	0.47		0.14
pyloric stenosis	-	1	-	-	-	-	-	1	-	1	3	5.0	0.60		0.42
other anomalies of alimentary tract	-	-	2	1	-	2	-	1	1	1	8	13.1	0.61		1.11
Other Anomalies of Digestive System	-	1	3	2	-	1	1	-	2	3	13	14.9	0.87		1.80
Anomalies of Genital Organs	1	-	2	6	9	8	2	2	3	4	37	51.3	0.72	-	5.12
Anomalies of Urinary System	1	1	2	4	3	-	1	-	1	1	14	30.7	0.46	-	1.94
renal agenesis	-	1	1	1	-	-	-	-	-	-	3	4.0	0.75		0.42
cystic kidney disease	-	-	-	2	-	-	-	-	-	-	2	4.5	0.44		0.28
other urinary anomalies	1	-	1	1	3	-	1	-	1	1	9	22.2	0.41	-	1.25
Congenital Musculoskeletal Deformities	6	10	4	5	20	7	7	11	10	9	89	130.8	0.68	-	12.31
anomalies of spine	-	-	-	1	-	2	-	-	-	1	4	2.6	1.54		0.55
congenital dislocation of hip	-	2	1	1	3	-	1	1	1	1	11	40.9	0.27	-	1.52
varus, valgus, clubfoot	2	4	1	1	6	1	2	2	2	1	22	26.6	0.83		3.04
polydactyly, syndactyly	-	-	1	1	-	-	2	4	1	2	11	12.3	0.90		1.52
limb reductions	-	1	1	-	2	-	-	-	1	-	5	4.3	1.17		0.69
chondro/ osteo dystrophies	1	-	-	-	1	-	-	-	1	-	3	2.1	1.41		0.42
other musculoskeletal deformities	3	3	-	1	8	4	2	4	4	4	33	42.1	0.78		4.57
Anomalies of the Integument	1	1	1	2	3	2	1	2	4	4	21	23.4	0.90		2.91
hemangioma and lymphangioma	1	1	-	-	-	-	-	-	3	-	5	4.6	1.09		0.69
other anomalies of integument	-	-	1	2	3	2	1	2	1	4	16	18.8	0.85		2.21
Fetal Alcohol Spectrum Disorder	-	1	1	1	-	-	-	-	-	2	5	13.2	0.38	-	0.69
Chromosomal Anomalies	-	1	1	2	2	3	-	2	1	-	12	21.8	0.55	-	1.66
Down's syndrome	-	-	1	1	1	1	-	-	-	-	4	10.8	0.37	(-)	0.55
other chromosomal anomalies	-	1	-	1	1	2	-	2	1	-	8	11.0	0.73		1.11
Multiple & Multiple System Anomalies	-	1	-	2	1	-	-	-	2	2	8	9.8	0.82		1.11
Other and Unspecified Anomalies	1	1	-	3	5	1	-	1	2	-	14	7.9	1.77	+	1.94
Total Diagnoses	25	25	37	55	59	42	33	31	43	35	385	532.7	0.72	-	53.27
(Rate /1,000 total births)	(27.8)	(31.2)	(48.7)	(77.1)	(79.9)	(57.4)	(47.4)	(45.1)	(69.5)	(60.2)					
Total Cases	22	20	19	26	32	25	21	17	25	24	231	344.7	0.67	-	31.96
(Rate /1,000 total births)	(24.5)	(24.9)	(25.0)	(36.5)	(43.4)	(34.2)	(30.2)	(24.7)	(40.4)	(41.3)					
Total Births	899	802	760	713	738	732	696	688	619	581	7,228				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected (p<0.05, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 23

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth British Columbia, 1991-2000

51 Northwest HSDA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	9	11	5	11	2	7	6	7	5	1	**64**	**45.3**	**1.41**	+	**4.77**
anencephalus & similar defects	-	1	-	-	-	1	-	-	2	-	4	2.4	1.70		0.30
neural tube defects	2	4	5	3	-	4	-	2	-	-	20	11.8	1.70	+	1.49
hydrocephalus	3	-	-	1	2	-	1	1	1	-	9	6.2	1.44		0.67
other nervous system defects	4	6	-	7	-	2	5	4	2	1	31	24.8	1.25		2.31
Anomalies of Eye	1	3	4	1	-	-	2	1	-	2	**14**	**13.7**	**1.02**		**1.04**
Anomalies of Ear, Face, Neck	2	4	4	2	1	8	7	2	1	-	**31**	**28.8**	**1.08**		**2.31**
Anomalies of Heart	5	3	16	6	3	10	18	13	7	5	**86**	**138.3**	**0.62**	-	**6.41**
transposition of great vessels	-	-	3	-	1	-	-	3	-	1	8	7.7	1.04		0.60
tetralogy of Fallot	-	-	1	-	-	-	-	-	1	-	2	5.4	0.37		0.15
ventricular septal defect	2	1	2	-	-	-	4	2	3	1	15	35.3	0.42	-	1.12
hypoplastic left heart syndrome	-	-	-	1	-	-	-	-	-	-	1	3.4	0.29		0.07
other heart anomalies	3	2	10	5	2	10	14	8	3	3	60	86.4	0.69	-	4.47
Other Circulatory System Anomalies	4	3	2	9	14	11	12	8	2	7	**72**	**98.6**	**0.73**	-	**5.36**
patent ductus arteriosus	1	1	-	2	3	8	5	5	-	5	30	47.4	0.63	-	2.23
Anomalies of Respiratory System	1	3	3	1	1	2	5	4	3	1	**24**	**24.7**	**0.97**		**1.79**
Cleft Palate/Cleft Lip	6	6	3	1	1	4	9	7	3	5	**45**	**37.8**	**1.19**		**3.35**
Anomalies of Upper Alimentary Tract	1	2	3	2	3	3	5	3	4	6	**32**	**37.6**	**0.85**		**2.38**
tracheoesophageal fistula	1	1	-	-	1	-	1	-	-	-	4	3.9	1.01		0.30
pyloric stenosis	-	1	-	1	-	2	2	3	1	2	12	9.3	1.29		0.89
other anomalies of alimentary tract	-	-	3	1	2	1	2	-	3	4	16	24.4	0.66		1.19
Other Anomalies of Digestive System	1	4	5	-	2	2	4	4	2	-	**24**	**27.7**	**0.87**		**1.79**
Anomalies of Genital Organs	8	6	5	7	6	7	5	4	4	8	**60**	**95.3**	**0.63**	-	**4.47**
Anomalies of Urinary System	4	1	8	3	8	3	2	8	6	-	**43**	**57.1**	**0.75**		**3.20**
renal agenesis	-	-	-	1	-	-	-	1	-	-	2	7.5	0.27	(-)	0.15
cystic kidney disease	-	1	-	-	-	1	-	1	1	-	4	8.4	0.48		0.30
other urinary anomalies	4	-	8	2	8	2	2	6	5	-	37	41.2	0.90		2.76
Congenital Musculoskeletal Deformities	19	20	13	19	8	25	39	15	24	28	**210**	**243.0**	**0.86**	-	**15.64**
anomalies of spine	2	-	-	-	-	1	-	-	-	1	4	4.8	0.83		0.30
congenital dislocation of hip	5	3	4	5	-	5	6	2	11	8	49	75.9	0.65	-	3.65
varus, valgus, clubfoot	3	5	1	3	1	10	14	2	4	3	46	49.4	0.93		3.43
polydactyly, syndactyly	-	3	1	1	1	4	4	4	2	5	25	22.8	1.10		1.86
limb reductions	1	1	1	1	1	-	-	-	-	1	6	7.9	0.76		0.45
chondro/ osteo dystrophies	-	-	1	1	-	-	1	4	-	-	7	3.9	1.78		0.52
other musculoskeletal deformities	8	8	5	8	5	5	14	3	7	10	73	78.2	0.93		5.44
Anomalies of the Integument	3	1	1	-	3	4	8	1	8	2	**31**	**43.4**	**0.71**		**2.31**
hemangioma and lymphangioma	1	-	-	-	2	1	1	-	-	-	5	8.5	0.59		0.37
other anomalies of integument	2	1	1	-	1	3	7	1	8	2	26	34.9	0.75		1.94
Fetal Alcohol Spectrum Disorder	-	-	1	3	-	3	1	-	1	-	**9**	**24.5**	**0.37**	-	**0.67**
Chromosomal Anomalies	2	3	2	2	1	4	6	4	2	2	**28**	**40.6**	**0.69**	-	**2.09**
Down's syndrome	1	1	2	2	-	1	-	1	-	1	9	20.0	0.45	-	0.67
other chromosomal anomalies	1	2	-	-	1	3	6	3	2	1	19	20.4	0.93		1.42
Multiple & Multiple System Anomalies	1	1	-	-	2	2	1	-	-	1	**8**	**18.2**	**0.44**	-	**0.60**
Other and Unspecified Anomalies	1	-	1	1	3	4	2	-	1	-	**13**	**14.7**	**0.88**		**0.97**
Total Diagnoses	68	71	76	68	58	99	132	81	73	68	**794**	**989.3**	**0.80**	-	**59.15**
(Rate /1,000 total births)	(44.6)	(46.7)	(55.7)	(45.6)	(43.3)	(69.4)	(100.3)	(68.9)	(63.9)	(60.6)					
Total Cases	51	52	39	48	42	74	70	54	57	44	**531**	**640.1**	**0.83**	-	**39.56**
(Rate /1,000 total births)	(33.4)	(34.2)	(28.6)	(32.2)	(31.3)	(51.9)	(53.2)	(45.9)	(49.9)	(39.2)					
Total Births	1,526	1,519	1,364	1,491	1,340	1,426	1,316	1,176	1,142	1,123	13,423				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 24

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth British Columbia, 1991-2000

52 Northern Interior HSDA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	5	5	8	11	13	3	3	3	4	5	60	69.5	0.86		2.91
anencephalus & similar defects	1	1	1	2	1	-	-	-	-	-	6	3.6	1.66		0.29
neural tube defects	1	4	2	2	3	-	-	-	2	1	15	18.1	0.83		0.73
hydrocephalus	1	-	2	1	1	-	1	-	-	-	6	9.6	0.63		0.29
other nervous system defects	2	-	3	6	7	3	2	3	2	4	32	38.0	0.84		1.55
Anomalies of Eye	1	1	2	1	6	4	6	4	3	1	29	21.1	1.38		1.41
Anomalies of Ear, Face, Neck	1	3	3	2	2	5	4	4	4	5	33	44.1	0.75		1.60
Anomalies of Heart	18	24	15	25	36	39	43	24	20	20	264	212.0	1.25	+	12.82
transposition of great vessels	1	2	-	2	2	4	3	2	2	1	19	11.8	1.61	+	0.92
tetralogy of Fallot	-	1	3	-	-	-	1	-	1	1	7	8.3	0.84		0.34
ventricular septal defect	3	5	2	9	10	8	6	5	6	7	61	54.1	1.13		2.96
hypoplastic left heart syndrome	-	-	1	-	2	1	1	-	-	-	5	5.2	0.96		0.24
other heart anomalies	14	16	9	14	22	26	32	17	11	11	172	132.6	1.30	+	8.35
Other Circulatory System Anomalies	5	8	5	15	16	30	36	14	20	11	160	151.2	1.06		7.77
patent ductus arteriosus	-	4	4	5	10	13	14	9	7	6	72	72.7	0.99		3.50
Anomalies of Respiratory System	4	2	2	1	5	2	3	1	11	2	33	37.9	0.87		1.60
Cleft Palate/Cleft Lip	14	6	4	12	7	11	9	11	5	5	84	57.9	1.45	+	4.08
Anomalies of Upper Alimentary Tract	2	2	4	2	6	12	8	6	16	10	68	57.7	1.18		3.30
tracheoesophageal fistula	-	-	1	-	-	-	-	-	1	-	2	6.0	0.33		0.10
pyloric stenosis	2	-	1	-	-	2	-	-	-	-	5	14.2	0.35	-	0.24
other anomalies of alimentary tract	-	2	2	2	6	10	8	6	15	10	61	37.4	1.63	+	2.96
Other Anomalies of Digestive System	2	4	1	2	4	9	3	9	2	4	40	42.5	0.94		1.94
Anomalies of Genital Organs	12	7	4	29	14	19	28	20	23	27	183	146.2	1.25	+	8.89
Anomalies of Urinary System	9	11	9	8	4	3	16	10	13	16	99	87.5	1.13		4.81
renal agenesis	2	1	1	4	-	-	3	4	-	-	15	11.5	1.31		0.73
cystic kidney disease	-	1	4	1	1	1	2	-	2	1	13	12.8	1.01		0.63
other urinary anomalies	7	9	4	3	3	2	11	6	11	15	71	63.2	1.12		3.45
Congenital Musculoskeletal Deformities	34	31	14	40	30	40	45	55	58	65	412	372.7	1.11	+	20.01
anomalies of spine	-	1	1	1	2	-	-	2	1	1	9	7.4	1.21		0.44
congenital dislocation of hip	5	4	2	9	1	7	2	5	6	6	47	116.4	0.40	-	2.28
varus, valgus, clubfoot	9	11	4	15	8	4	12	13	11	17	104	75.7	1.37	+	5.05
polydactyly, syndactyly	3	6	1	1	5	3	2	4	3	6	34	35.0	0.97		1.65
limb reductions	2	-	1	-	-	2	5	1	1	3	15	12.2	1.23		0.73
chondro/ osteo dystrophies	-	-	2	-	-	-	-	-	1	-	3	6.0	0.50		0.15
other musculoskeletal deformities	15	9	3	14	14	24	24	30	35	32	200	119.9	1.67	+	9.71
Anomalies of the Integument	4	9	4	15	7	8	18	16	17	13	111	66.6	1.67	+	5.39
hemangioma and lymphangioma	2	1	-	3	1	3	2	1	1	2	16	13.1	1.22		0.78
other anomalies of integument	2	8	4	12	6	5	16	15	16	11	95	53.5	1.78	+	4.61
Fetal Alcohol Spectrum Disorder	7	1	-	5	5	9	15	13	9	10	74	37.6	1.97	+	3.59
Chromosomal Anomalies	4	4	6	1	8	2	9	2	1	4	41	62.2	0.66	-	1.99
Down's syndrome	2	1	4	-	5	-	6	1	1	3	23	30.7	0.75		1.12
other chromosomal anomalies	2	2	2	1	3	2	3	1	-	1	17	31.3	0.54	-	0.83
Multiple & Multiple System Anomalies	3	1	3	-	1	3	1	4	3	2	21	27.9	0.75		1.02
Other and Unspecified Anomalies	-	4	-	-	1	3	3	1	8	1	21	22.6	0.93		1.02
Total Diagnoses	125	123	84	169	165	202	250	197	217	201	1,733	1,517.3	1.14	+	84.18
(Rate /1,000 total births)	(55.8)	(58.1)	(38.5)	(76.9)	(76.7)	(93.6)	(120.6)	(98.9)	(119.3)	(121.1)					
Total Cases	92	79	59	122	97	142	146	122	145	148	1,152	981.8	1.17	+	55.95
(Rate /1,000 total births)	(41.1)	(37.3)	(27.0)	(55.5)	(45.1)	(65.8)	(70.4)	(61.2)	(79.7)	(89.2)					
Total Births	2,240	2,117	2,182	2,198	2,150	2,157	2,073	1,992	1,819	1,660	20,588				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 25

Congenital Anomalies for Total Births (Live birth and Stillbirth) by Year of Birth British Columbia, 1991-2000

53 Northeast HSDA

Diagnosis	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	1991-2000 Obs	Exp	Ratio	(p)	Rate
Nervous System Defects	5	5	2	4	4	1	5	1	2	2	31	33.4	0.93		3.13
anencephalus & similar defects	-	-	-	-	-	-	-	-	-	1	1	1.7	0.57		0.10
neural tube defects	3	2	1	2	1	-	4	-	2	-	15	8.7	1.72	+	1.52
hydrocephalus	-	-	-	1	-	-	-	-	-	-	1	4.6	0.22		0.10
other nervous system defects	2	3	1	1	3	1	1	1	-	1	14	18.3	0.77		1.41
Anomalies of Eye	-	-	1	1	1	1	-	2	1	-	7	10.1	0.69		0.71
Anomalies of Ear, Face, Neck	-	2	-	1	4	-	1	3	1	4	16	21.2	0.75		1.62
Anomalies of Heart	3	5	1	14	1	5	9	3	3	10	54	101.9	0.53	-	5.46
transposition of great vessels	-	-	1	-	-	-	1	-	-	-	2	5.7	0.35		0.20
tetralogy of Fallot	-	-	-	1	-	-	1	-	1	-	3	4.0	0.75		0.30
ventricular septal defect	1	1	-	2	-	4	2	-	1	2	13	26.0	0.50	-	1.31
hypoplastic left heart syndrome	-	-	-	-	-	-	-	-	-	-	-	2.5	-		-
other heart anomalies	2	4	-	11	1	1	5	3	1	8	36	63.7	0.56	-	3.64
Other Circulatory System Anomalies	1	4	1	6	5	3	4	3	5	2	34	72.7	0.47	-	3.44
patent ductus arteriosus	1	3	-	1	2	2	2	-	4	1	16	35.0	0.46	-	1.62
Anomalies of Respiratory System	-	-	-	1	-	1	-	1	1	1	5	18.2	0.27	-	0.51
Cleft Palate/Cleft Lip	2	-	3	2	6	2	3	1	3	1	23	27.8	0.83		2.32
Anomalies of Upper Alimentary Tract	-	1	1	1	-	3	-	1	3	7	17	27.7	0.61	-	1.72
tracheoesophageal fistula	-	-	-	-	-	-	-	1	-	-	1	2.9	0.34		0.10
pyloric stenosis	-	-	-	-	-	-	-	-	-	-	-	6.8	-		-
other anomalies of alimentary tract	-	1	1	1	-	3	-	-	3	7	16	18.0	0.89		1.62
Other Anomalies of Digestive System	-	-	-	1	-	-	-	1	-	4	6	20.4	0.29	-	0.61
Anomalies of Genital Organs	4	6	3	9	7	8	10	6	11	14	78	70.3	1.11		7.88
Anomalies of Urinary System	3	4	3	4	-	2	-	4	2	7	29	42.1	0.69	-	2.93
renal agenesis	-	-	1	-	-	-	-	-	-	2	3	5.5	0.54		0.30
cystic kidney disease	-	2	1	-	-	2	-	4	-	1	10	6.2	1.62		1.01
other urinary anomalies	3	2	1	4	-	-	-	-	2	4	16	30.4	0.53	-	1.62
Congenital Musculoskeletal Deformities	6	7	13	12	17	17	11	16	13	29	141	179.2	0.79	-	14.25
anomalies of spine	-	1	1	-	2	-	1	-	1	1	7	3.6	1.96		0.71
congenital dislocation of hip	2	-	-	1	3	-	1	-	2	6	15	56.0	0.27	-	1.52
varus, valgus, clubfoot	2	1	6	5	5	4	1	1	3	5	33	36.4	0.91		3.33
polydactyly, syndactyly	-	3	2	-	-	3	1	1	1	5	16	16.8	0.95		1.62
limb reductions	1	1	1	-	1	-	2	1	1	2	10	5.9	1.71		1.01
chondro/ osteo dystrophies	-	-	-	-	-	-	-	-	-	-	-	2.9	-		-
other musculoskeletal deformities	1	1	3	6	6	10	5	13	5	10	60	57.7	1.04		6.06
Anomalies of the Integument	1	1	1	1	1	-	2	1	1	6	15	32.0	0.47	-	1.52
hemangioma and lymphangioma	-	-	-	-	-	-	1	-	-	1	2	6.3	0.32		0.20
other anomalies of integument	1	1	1	1	1	-	1	1	1	5	13	25.7	0.51	-	1.31
Fetal Alcohol Spectrum Disorder	-	-	1	1	-	1	1	-	3	-	7	18.1	0.39	-	0.71
Chromosomal Anomalies	4	-	3	2	1	1	6	1	3	-	21	29.9	0.70		2.12
Down's syndrome	3	-	-	1	1	-	3	1	3	-	12	14.8	0.81		1.21
other chromosomal anomalies	-	-	3	1	-	1	3	-	-	-	8	15.0	0.53		0.81
Multiple & Multiple System Anomalies	-	-	-	1	3	1	-	2	4	-	11	13.4	0.82		1.11
Other and Unspecified Anomalies	-	1	-	1	-	1	-	-	1	-	4	10.9	0.37	(-)	0.40
Total Diagnoses	29	36	33	62	50	47	52	46	57	87	499	729.5	0.68	-	50.41
(Rate /1,000 total births)	(27.8)	(35.5)	(31.0)	(57.7)	(48.8)	(47.0)	(52.4)	(49.8)	(66.2)	(96.7)					
Total Cases	17	23	23	37	32	41	35	33	36	60	337	472.0	0.71	-	34.05
(Rate /1,000 total births)	(16.3)	(22.7)	(21.6)	(34.5)	(31.3)	(41.0)	(35.2)	(35.7)	(41.8)	(66.7)					
Total Births	1,044	1,015	1,063	1,074	1,024	1,000	993	924	861	900	9,898				

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected (p<0.05, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low. Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth. Diagnosis with unknown HSDA/HA are included in BC Total. Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.

Table 26
Congenital Anomaly Cases by HSDA and Health Authority
British Columbia, 1991 - 2000

Health Service Delivery Area (HSDA)		Total Births	Observed	Expected	Ratio	(p)	Rate
11	East Kootenay	7,980	244	380.6	0.64	-	30.58
12	Kootenay Boundary	7,701	268	367.3	0.73	-	34.80
13	Okanagan	29,060	1,318	1,385.8	0.95		45.35
14	Thompson Cariboo	22,974	966	1,095.6	0.88	-	42.05
21	Fraser Valley	31,400	1,109	1,497.4	0.74	-	35.32
22	Simon Fraser	59,321	3,077	2,828.9	1.09	+	51.87
23	South Fraser	74,016	3,453	3,529.7	0.98		46.65
31	Richmond	16,742	670	798.4	0.84	-	40.02
32	Vancouver	59,732	4,468	2,848.5	1.57	+	74.80
33	North Shore/Coast Garibaldi	27,338	1,074	1,303.7	0.82	-	39.29
41	South Vancouver Island	38,021	1,436	1,813.2	0.79	-	37.77
42	Central Vancouver Island	23,516	1,031	1,121.4	0.92	-	43.84
43	North Vancouver Island	7,228	231	344.7	0.67	-	31.96
51	Northwest	13,423	531	640.1	0.83	-	39.56
52	Northern Interior	20,588	1,152	981.8	1.17	+	55.95
53	Northeast	9,898	337	472.0	0.71	-	34.05
Health Authority (HA)							
01	Interior HA	67,715	2,796	3,229.2	0.87	-	41.29
02	Fraser HA	164,737	7,639	7,856.1	0.97	-	46.37
03	Vancouver Coastal HA	103,812	6,212	4,950.7	1.25	+	59.84
04	Vancouver Island HA	68,765	2,698	3,279.3	0.82	-	39.24
05	Northern HA	43,909	2,020	2,094.0	0.96		46.00
	Provincial Total	449,435	21,433	21,433.0	1.00		47.69

Table 27
Congenital Anomaly Diagnoses by HSDA and Health Authority
British Columbia, 1991 - 2000

Health Service Delivery Area (HSDA)		Total Births	Observed	Expected	Ratio	(p)	Rate
11	East Kootenay	7,980	335	588.1	0.57	-	41.98
12	Kootenay Boundary	7,701	443	567.6	0.78	-	57.52
13	Okanagan	29,060	2,094	2,141.7	0.98		72.06
14	Thompson Cariboo	22,974	1,535	1,693.2	0.91	-	66.81
21	Fraser Valley	31,400	1,805	2,314.2	0.78	-	57.48
22	Simon Fraser	59,321	4,514	4,371.9	1.03	+	76.09
23	South Fraser	74,016	5,345	5,454.9	0.98		72.21
31	Richmond	16,742	1,014	1,233.9	0.82	-	60.57
32	Vancouver	59,732	7,102	4,402.2	1.61	+	118.90
33	North Shore/Coast Garibaldi	27,338	1,600	2,014.8	0.79	-	58.53
41	South Vancouver Island	38,021	2,199	2,802.1	0.78	-	57.84
42	Central Vancouver Island	23,516	1,627	1,733.1	0.94	-	69.19
43	North Vancouver Island	7,228	385	532.7	0.72	-	53.27
51	Northwest	13,423	794	989.3	0.80	-	59.15
52	Northern Interior	20,588	1,733	1,517.3	1.14	+	84.18
53	Northeast	9,898	499	729.5	0.68	-	50.41
Health Authority (HA)							
01	Interior HA	67,715	4,407	4,990.5	0.88	-	65.08
02	Fraser HA	164,737	11,664	12,141.0	0.96	-	70.80
03	Vancouver Coastal HA	103,812	9,716	7,650.9	1.27	+	93.59
04	Vancouver Island HA	68,765	4,211	5,067.9	0.83	-	61.24
05	Northern HA	43,909	3,026	3,236.1	0.94	-	68.92
	Provincial Total	449,435	33,123	33,123.0	1.00		73.70

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low.
Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000.
HSDA/HA assignment by usual address at time of birth. Diagnoses with unknown HSDA/HA are included in Provincial Total.

Table 28
Congenital Nervous System Defects by HSDA and Health Authority
British Columbia, 1991 - 2000

Health Service Delivery Area (HSDA)	Total Births	Observed	Expected	Ratio	(p)	Rate
11 East Kootenay	7,980	15	26.9	0.56	-	1.88
12 Kootenay Boundary	7,701	20	26.0	0.77		2.60
13 Okanagan	29,060	92	98.1	0.94		3.17
14 Thompson Cariboo	22,974	52	77.6	0.67	-	2.26
21 Fraser Valley	31,400	89	106.0	0.84		2.83
22 Simon Fraser	59,321	217	200.2	1.08		3.66
23 South Fraser	74,016	209	249.8	0.84	-	2.82
31 Richmond	16,742	32	56.5	0.57	-	1.91
32 Vancouver	59,732	334	201.6	1.66	+	5.59
33 North Shore/Coast Garibaldi	27,338	87	92.3	0.94		3.18
41 South Vancouver Island	38,021	116	128.3	0.90		3.05
42 Central Vancouver Island	23,516	73	79.4	0.92		3.10
43 North Vancouver Island	7,228	13	24.4	0.53	-	1.80
51 Northwest	13,423	64	45.3	1.41	+	4.77
52 Northern Interior	20,588	60	69.5	0.86		2.91
53 Northeast	9,898	31	33.4	0.93		3.13
Health Authority (HA)						
01 Interior HA	67,715	179	228.6	0.78	-	2.64
02 Fraser HA	164,737	515	556.0	0.93		3.13
03 Vancouver Coastal HA	103,812	453	350.4	1.29	+	4.36
04 Vancouver Island HA	68,765	202	232.1	0.87	-	2.94
05 Northern HA	43,909	155	148.2	1.05		3.53
Provincial Total	449,435	1,517	1,517.0	1.00		3.38

Table 29
Congenital Heart Defects by HSDA and Health Authority
British Columbia, 1991 - 2000

Health Service Delivery Area (HSDA)	Total Births	Observed	Expected	Ratio	(p)	Rate
11 East Kootenay	7,980	43	82.2	0.52	-	5.39
12 Kootenay Boundary	7,701	68	79.3	0.86		8.83
13 Okanagan	29,060	278	299.3	0.93		9.57
14 Thompson Cariboo	22,974	260	236.6	1.10		11.32
21 Fraser Valley	31,400	292	323.4	0.90		9.30
22 Simon Fraser	59,321	484	611.0	0.79	-	8.16
23 South Fraser	74,016	727	762.3	0.95		9.82
31 Richmond	16,742	152	172.4	0.88		9.08
32 Vancouver	59,732	1,030	615.2	1.67	+	17.24
33 North Shore/Coast Garibaldi	27,338	214	281.6	0.76	-	7.83
41 South Vancouver Island	38,021	379	391.6	0.97		9.97
42 Central Vancouver Island	23,516	221	242.2	0.91		9.40
43 North Vancouver Island	7,228	58	74.5	0.78		8.02
51 Northwest	13,423	86	138.3	0.62	-	6.41
52 Northern Interior	20,588	264	212.1	1.25	+	12.82
53 Northeast	9,898	54	102.0	0.53	-	5.46
Health Authority (HA)						
01 Interior HA	67,715	649	697.4	0.93		9.58
02 Fraser HA	164,737	1,503	1,696.7	0.89	-	9.12
03 Vancouver Coastal HA	103,812	1,396	1,069.2	1.31	+	13.45
04 Vancouver Island HA	68,765	658	708.3	0.93		9.57
05 Northern HA	43,909	404	452.3	0.89	-	9.20
Provincial Total	449,435	4,629	4,629.0	1.00		10.30

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low.
Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth.
Diagnoses with unknown HSDA/HA are included in Provincial Total. Refer to Appendix 1 for ICD-9 and ICD 10 codes used in each category.

Table 30

Congenital Cleft Palate/Cleft Lip Defects by HSDA and Health Authority
British Columbia, 1991 - 2000

Health Service Delivery Area (HSDA)	Total Births	Observed	Expected	Ratio	(p)	Rate
11 East Kootenay	7,980	10	22.4	0.45	-	1.25
12 Kootenay Boundary	7,701	19	21.7	0.88		2.47
13 Okanagan	29,060	97	81.7	1.19		3.34
14 Thompson Cariboo	22,974	64	64.6	0.99		2.79
21 Fraser Valley	31,400	82	88.3	0.93		2.61
22 Simon Fraser	59,321	166	166.8	0.99		2.80
23 South Fraser	74,016	198	208.2	0.95		2.68
31 Richmond	16,742	50	47.1	1.06		2.99
32 Vancouver	59,732	203	168.0	1.21	+	3.40
33 North Shore/Coast Garibaldi	27,338	56	76.9	0.73	-	2.05
41 South Vancouver Island	38,021	83	106.9	0.78	-	2.18
42 Central Vancouver Island	23,516	61	66.1	0.92		2.59
43 North Vancouver Island	7,228	22	20.3	1.08		3.04
51 Northwest	13,423	45	37.8	1.19		3.35
52 Northern Interior	20,588	84	57.9	1.45	+	4.08
53 Northeast	9,898	23	27.8	0.83		2.32
Health Authority (HA)						
01 Interior HA	67,715	190	190.4	1.00		2.81
02 Fraser HA	164,737	446	463.3	0.96		2.71
03 Vancouver Coastal HA	103,812	309	292.0	1.06		2.98
04 Vancouver Island HA	68,765	166	193.4	0.86	-	2.41
05 Northern HA	43,909	152	123.5	1.23	+	3.46
Provincial Total	449,435	1,264	1,264.0	1.00		2.81

Table 31

Congenital Musculoskeletal Deformities by HSDA and Health Authority
British Columbia, 1991 - 2000

Health Service Delivery Area (HSDA)	Total Births	Observed	Expected	Ratio	(p)	Rate
11 East Kootenay	7,980	106	144.5	0.73	-	13.28
12 Kootenay Boundary	7,701	86	139.4	0.62	-	11.17
13 Okanagan	29,060	475	526.1	0.90	-	16.35
14 Thompson Cariboo	22,974	350	415.9	0.84	-	15.23
21 Fraser Valley	31,400	383	568.4	0.67	-	12.20
22 Simon Fraser	59,321	1,222	1,073.9	1.14	+	20.60
23 South Fraser	74,016	1,353	1,339.9	1.01		18.28
31 Richmond	16,742	266	303.1	0.88	-	15.89
32 Vancouver	59,732	1,775	1,081.3	1.64	+	29.72
33 North Shore/Coast Garibaldi	27,338	410	494.9	0.83	-	15.00
41 South Vancouver Island	38,021	468	688.3	0.68	-	12.31
42 Central Vancouver Island	23,516	383	425.7	0.90	-	16.29
43 North Vancouver Island	7,228	89	130.9	0.68	-	12.31
51 Northwest	13,423	210	243.0	0.86	-	15.64
52 Northern Interior	20,588	412	372.7	1.11	+	20.01
53 Northeast	9,898	141	179.2	0.79	-	14.25
Health Authority (HA)						
01 Interior HA	67,715	1,017	1,225.8	0.83	-	15.02
02 Fraser HA	164,737	2,958	2,982.2	0.99		17.96
03 Vancouver Coastal HA	103,812	2,451	1,879.3	1.30	+	23.61
04 Vancouver Island HA	68,765	940	1,244.8	0.76	-	13.67
05 Northern HA	43,909	763	794.9	0.96		17.38
Provincial Total	449,435	8,136	8,136.0	1.00		18.10

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low.
Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth.
Diagnoses with unknown HSDA/HA are included in Provincial Total. Refer to Appendix 1 for ICD-9 and ICD 10 codes used in each category.

Table 32

Chromosomal Anomalies by HSDA and Health Authority
British Columbia, 1991 - 2000

Health Service Delivery Area (HSDA)		Total Births	Observed	Expected	Ratio	(p)	Rate
11	East Kootenay	7,980	20	24.1	0.83		2.51
12	Kootenay Boundary	7,701	24	23.3	1.03		3.12
13	Okanagan	29,060	86	87.8	0.98		2.96
14	Thompson Cariboo	22,974	53	69.4	0.76	-	2.31
21	Fraser Valley	31,400	87	94.9	0.92		2.77
22	Simon Fraser	59,321	160	179.2	0.89		2.70
23	South Fraser	74,016	192	223.6	0.86	-	2.59
31	Richmond	16,742	54	50.6	1.07		3.23
32	Vancouver	59,732	318	180.5	1.76	+	5.32
33	North Shore/Coast Garibaldi	27,338	71	82.6	0.86		2.60
41	South Vancouver Island	38,021	100	114.9	0.87		2.63
42	Central Vancouver Island	23,516	81	71.1	1.14		3.44
43	North Vancouver Island	7,228	12	21.8	0.55	-	1.66
51	Northwest	13,423	28	40.6	0.69	-	2.09
52	Northern Interior	20,588	41	62.2	0.66	-	1.99
53	Northeast	9,898	21	29.9	0.70		2.12
Health Authority (HA)							
01	Interior HA	67,715	183	204.6	0.89		2.70
02	Fraser HA	164,737	439	497.8	0.88	-	2.66
03	Vancouver Coastal HA	103,812	443	313.7	1.41	+	4.27
04	Vancouver Island HA	68,765	193	207.8	0.93		2.81
05	Northern HA	43,909	90	132.7	0.68	-	2.05
	Provincial Total	449,435	1,358	1,358.0	1.00		3.02

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; significance based on less than five observations is indicated as (+) sig. High (-) sig. Low.
Observed are counts of all congenital anomalies recorded in the HSR for births 1991-2000. HSDA/HA assignment by usual address at time of birth.
Diagnoses with unknown HSDA/HA are included in Provincial Total. Refer to Appendix 1 for ICD-9 and ICD 10 codes used in each category.

Section 3: Congenital Anomalies by Local Health Area

Local Health Area Highlights

A total of 21,433 children born in 1991-2000 were reported to HSR with at least one diagnosis of a congenital anomaly. The provincial rate for congenital anomaly cases was 47.69 per 1,000 total births in 1991-2000.

There were nine LHAs with statistically significant high ratios between observed and expected cases with congenital anomalies; the highest ratios (with the number of cases, followed by the rates) were:

040	New Westminster	3.53	1,106	168.50
165	Vancouver Midtown	2.74	1,533	130.49
163	Vancouver North East	2.20	1,293	105.13

There were 50 LHAs with statistically significant low ratios between observed and expected cases with congenital anomalies; the lowest ratios (with the number of cases, followed by the rates) were:

016	Keremeos	0.22	5	10.37
078	Enderby	0.34	13	16.19
062	Sooke	0.45	140	21.59

A total of 33,123 congenital anomaly diagnoses were reported to HSR in 1991-2000 births; the provincial rate for congenital anomaly diagnoses was 73.70 per 1,000 total births.

There were nine LHAs with statistically significant high ratios between observed and expected reported congenital anomaly diagnoses; the highest ratios (with the number of diagnoses, followed by the rates) were:

165	Vancouver Midtown	3.20	2,770	235.79
040	New Westminster	3.16	1,531	233.24
163	Vancouver North East	2.16	1,960	159.36

There were 52 LHAs with statistically significant low ratios between observed and expected reported congenital anomaly diagnoses; the lowest ratios (with the number of diagnoses in parentheses, followed by the rates) were:

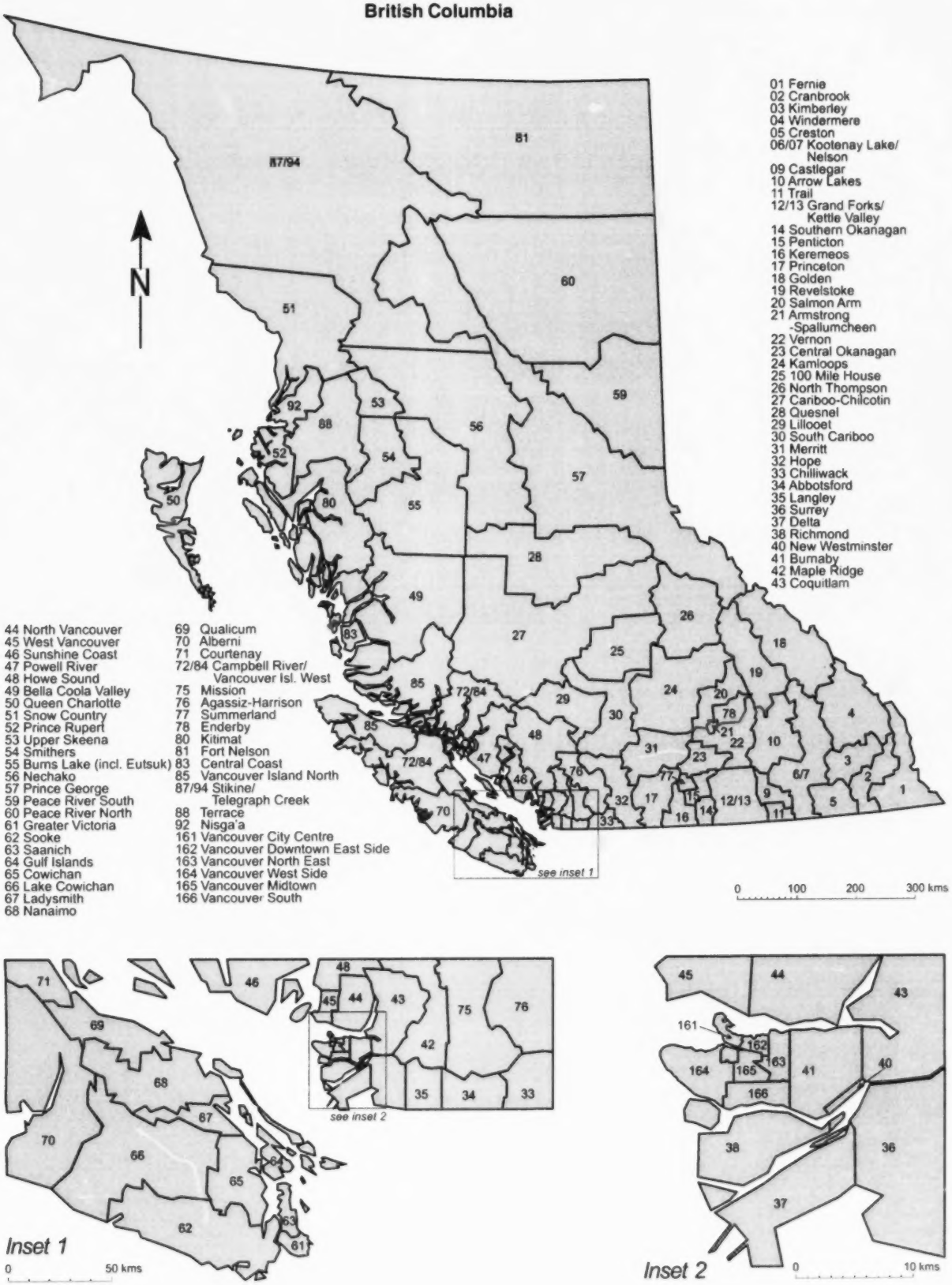
016	Keremeos	0.17	6	12.45
062	Sooke	0.39	186	28.68
020	Salmon Arm	0.41	79	29.92
021	Armstrong-Spallumcheen	0.41	27	30.44
029	Lillooet	0.41	20	30.53

There were 1,517 congenital nervous system defects reported to HSR in 1991-2000 births; the provincial rate was 3.38 per 1,000 total births.

There were six LHAs with statistically significant high ratios between observed and expected diagnoses of congenital nervous system defects based on at least five diagnoses; the highest ratios (with the number of diagnoses, followed by the rates) were:

165	Vancouver Midtown	4.79	190	16.17
032	Hope	2.54	8	8.57
040	New Westminster	2.08	46	7.01

Figure 14
Local Health Area
British Columbia



There were seven LHAs with statistically significant low ratios between observed and expected diagnoses of congenital nervous system defects based on at least five diagnoses; the lowest ratios (with the number of diagnoses, followed by the rates) were:

062	Sooke	0.41	9	1.39
037	Delta	0.44	17	1.47
164	Vancouver West Side	0.47	16	1.58

Five LHAs had no reported congenital nervous system defects in the ten-year period.

There were 4,629 congenital heart anomalies reported to HSR in 1991-2000 births; the provincial rate was 10.30 per 1,000 total births.

There were 10 LHAs with statistically significant high ratios between observed and expected diagnoses of congenital heart defects; the highest (with the number of diagnoses, followed by the rates) were:

165	Vancouver-Midtown	3.73	451	38.39
163	Vancouver-North East	1.94	246	20.00
040	New Westminster	1.77	120	18.28

There were 15 LHAs with statistically significant low ratios between observed and expected diagnoses of congenital heart defects based on at least five diagnoses; the lowest (with the number of diagnoses, followed by the rates) were:

067	Ladysmith	0.38	7	3.88
062	Sooke	0.42	28	4.32
043	Coquitlam	0.42	99	4.33

Four LHAs had no reported congenital heart defects in the ten-year period.

There were 1,264 diagnoses of cleft palate and cleft lip reported to HSR in 1991-2000 births; the provincial rate was 2.81 per 1,000 total births.

There were 14 LHAs with statistically significant high ratios between observed and expected diagnoses of cleft palate and cleft lip based on at least five diagnoses; the highest (with the number of diagnoses, followed by the rates) were:

077	Summerland	4.39	11	12.35
053	Upper Skeena	2.90	7	8.17
055/093	Burns Lake/Eutsuk	2.46	8	6.93

There were five LHAs with statistically significant low ratios between observed and expected diagnoses of cleft palate and cleft lip based on at least five diagnoses; the lowest (with the number of diagnoses, followed by the rates) were:

062	Sooke	0.33	6	0.93
060	Peace River North	0.45	6	1.25
166	Vancouver South	0.58	23	1.63

Ten LHAs had no reported diagnoses of cleft palate and cleft lip in the ten-year period.

There were 8,136 diagnoses of congenital musculoskeletal deformities reported to HSR in 1991-2000 births; the provincial rate was 18.10 per 1,000 total births.

There were nine LHAs with statistically significant high ratios between observed and expected diagnoses of congenital musculoskeletal deformities; the highest (with the number of diagnoses, followed by the rates) were:

040	New Westminster	4.12	490	74.65
165	Vancouver Midtown	2.86	609	51.84
163	Vancouver North East	2.45	545	44.31

There were 31 LHAs with statistically significant low ratios between observed and expected diagnoses of congenital musculoskeletal defects based on at least five diagnoses; the lowest (with the number of diagnoses, followed by the rates) were:

020	Salmon Arm	0.19	9	3.41
078	Enderby	0.34	5	6.23
062	Sooke	0.37	43	6.63

There were 1,358 diagnoses of chromosomal anomalies reported to HSR in 1991-2000 births; the provincial rate was 3.02 per 1,000 total births.

The LHAs with statistically significant high ratios between observed and expected diagnoses of chromosomal anomalies; the highest (with the number of diagnoses, followed by the rates) were:

165	Vancouver Midtown	4.73	168	14.30
040	New Westminster	2.32	46	7.01
163	Vancouver North East	1.86	69	5.61
068	Nanaimo	1.73	49	5.24

There were five LHAs with statistically significant low ratios between observed and expected diagnoses of chromosomal anomalies based on at least five diagnoses; the lowest (with the number of diagnoses, followed by the rates) were:

062	Sooke	0.36	7	1.08
070	Alberni	0.43	5	1.29
166	Vancouver South	0.47	20	1.42

Ten LHAs had no reported diagnoses of chromosomal anomalies in the ten-year period.

Table 33

Congenital Anomaly Cases by Local Health Area
British Columbia, 1991 - 2000

Local Health Area		Total Births	Observed	Expected	Ratio	(p)	Rate
01	Fernie	1,567	42	74.7	0.56	-	26.80
02	Cranbrook	2,669	85	127.3	0.67	-	31.85
03	Kimberley	703	23	33.5	0.69		32.72
04	Windermere	861	19	41.1	0.46	-	22.07
05	Creston	1,327	43	63.3	0.68	-	32.40
06/07	Kootenay Lake/Nelson	2,790	80	133.1	0.60	-	28.67
09	Castlegar	1,275	39	60.8	0.64	-	30.59
10	Arrow Lakes	552	16	26.3	0.61	-	28.99
11	Trail	2,028	101	96.7	1.04		49.80
12/13	Grand Forks/Kettle Valley	1,056	32	50.4	0.64	-	30.30
14	Southern Okanagan	1,564	42	74.6	0.56	-	26.85
15	Penticton	3,744	260	178.6	1.46	+	69.44
16	Keremeos	482	5	23.0	0.22	-	10.37
17	Princeton	431	10	20.6	0.49	-	23.20
18	Golden	853	32	40.7	0.79		37.52
19	Revelstoke	974	36	46.5	0.78		36.96
20	Salmon Arm	2,640	58	125.9	0.46	-	21.97
21	Armstrong-Spallumcheen	887	21	42.3	0.50	-	23.68
22	Vernon	5,904	307	281.6	1.09		52.00
23	Central Okanagan	14,354	628	684.5	0.92	-	43.75
24	Kamloops	10,529	604	502.1	1.20	+	57.37
25	100 Mile House	1,471	57	70.2	0.81		38.75
26	North Thompson	557	19	26.6	0.72		34.11
27	Cariboo-Chilcotin	3,812	112	181.8	0.62	-	29.38
28	Quesnel	3,201	143	152.7	0.94		44.67
29	Lillooet	655	16	31.2	0.51	-	24.43
30	South Cariboo	848	27	40.4	0.67	-	31.84
31	Merritt	1,488	37	71.0	0.52	-	24.87
32	Hope	934	29	44.5	0.65	-	31.05
33	Chilliwack	8,770	349	418.2	0.83	-	39.80
34	Abbotsford	16,067	552	766.2	0.72	-	34.36
35	Langley	13,227	930	630.8	1.47	+	70.31
36	Surrey	49,229	2,149	2,347.7	0.92	-	43.65
37	Delta	11,560	374	551.3	0.68	-	32.35
38	Richmond	16,742	670	798.4	0.84	-	40.02
40	New Westminster	6,564	1,106	313.0	3.53	+	168.50
41	Burnaby	20,282	848	967.2	0.88	-	41.81
42	Maple Ridge	9,630	382	459.2	0.83	-	39.67
43	Coquitlam	22,845	741	1,089.5	0.68	-	32.44
44	North Vancouver	14,653	620	698.8	0.89	-	42.31
45	West Vancouver-Bowen Island	3,328	85	158.7	0.54	-	25.54
46	Sunshine Coast	2,589	106	123.5	0.86		40.94
47	Powell River	2,020	88	96.3	0.91		43.56
48	Howe Sound	3,896	133	185.8	0.72	-	34.14
49	Bella Coola Valley	534	25	25.5	0.98		46.82
50	Queen Charlotte	892	28	42.5	0.66	-	31.39
51	Snow Country	170	4	8.1	0.49		23.53
52	Prince Rupert	2,989	112	142.5	0.79	-	37.47
53	Upper Skeena	857	48	40.9	1.17		56.01
54	Smithers	2,905	130	138.5	0.94		44.75
55/93	Burns Lake/Eutsuk	1,154	42	55.0	0.76		36.40
56	Nechako	2,770	120	132.1	0.91		43.32
57	Prince George	13,463	847	642.0	1.32	+	62.91
59	Peace River South	4,018	157	191.6	0.82	-	39.07
60	Peace River North	4,789	150	228.4	0.66	-	31.32
61	Greater Victoria	19,791	839	943.8	0.89	-	42.39
62	Sooke	6,486	140	309.3	0.45	-	21.59
63	Saanich	4,570	112	217.9	0.51	-	24.51
64	Gulf Islands	1,021	30	48.7	0.62	-	29.38
65	Cowichan	5,528	285	263.6	1.08		51.56
66	Lake Cowichan	625	30	29.8	1.01		48.00
67	Ladysmith	1,806	49	86.1	0.57	-	27.13
68	Nanaimo	9,357	527	446.2	1.18	+	56.32
69	Qualicum	2,804	83	133.7	0.62	-	29.60
70	Alberni	3,878	116	184.9	0.63	-	29.91
71	Courtenay	5,671	256	270.4	0.95		45.14
72/84	Campbell River/Vancouver Isl. W.	5,066	173	241.6	0.72	-	34.15
75	Mission	4,780	156	228.0	0.68	-	32.64
76	Agassiz-Harrison	849	23	40.5	0.57	-	27.09
77	Summerland	891	32	42.5	0.75		35.92
78	Enderby	803	13	38.3	0.34	-	16.19
80	Kitimat	1,599	69	76.3	0.90		43.15
81	Fort Nelson	1,091	30	52.0	0.58	-	27.50
83	Central Coast	318	17	15.2	1.12		53.46
85	Vancouver Island North	2,162	58	103.1	0.56	-	26.83
87/94	Stikine/Telegraph Creek	245	10	11.7	0.86		40.82
88	Terrace	3,401	115	162.2	0.71	-	33.81
92	Nisga'a	365	15	17.4	0.86		41.10
161	Vancouver City Centre	5,779	506	275.6	1.84	+	87.56
162	Vancouver Downtown East Side	5,537	244	264.1	0.92		44.07
163	Vancouver North East	12,299	1,293	586.5	2.20	+	105.13
164	Vancouver West Side	10,129	411	483.0	0.85	-	40.58
165	Vancouver Midtown	11,748	1,533	560.3	2.74	+	130.49
166	Vancouver South	14,120	481	673.4	0.71	-	34.07
39	**Vancouver Total**	59,732	4,468	2,848.6	1.57	+	74.80
	Provincial Total	449,435	21,433	21,433.0	1.00		47.69

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; sig. based on less than five observations is indicated as (+) sig. High (-) sig. Low. LHA assignment by address at time of birth, u/k LHA are incl. in Provincial Total.

Figure 15
Congenital Anomaly Cases by Local Health Area
British Columbia, 1991 - 2000

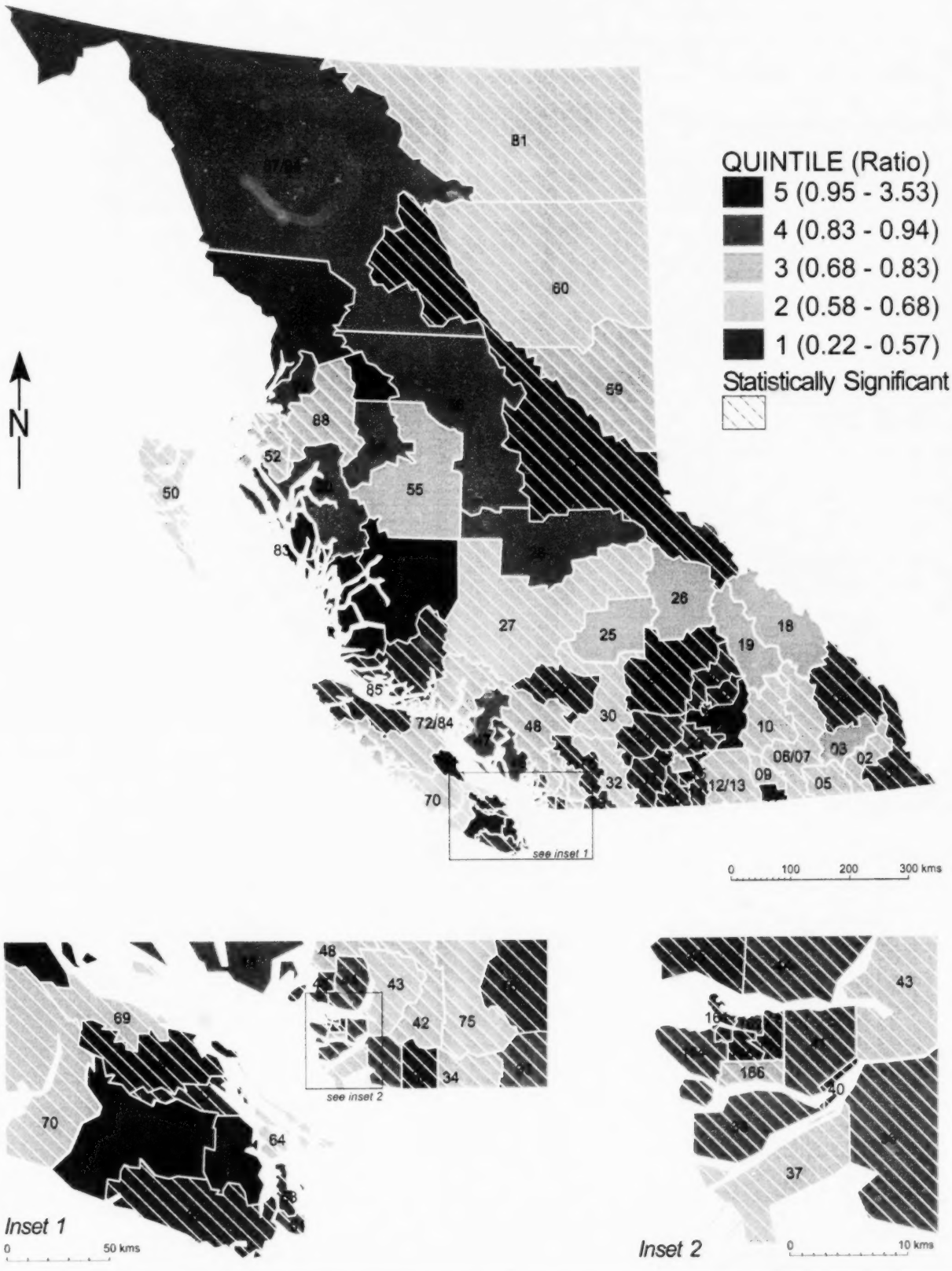


Table 34

Congenital Anomaly Diagnoses by Local Health Area
British Columbia, 1991 - 2000

Local Health Area	Total Births	Observed	Expected	Ratio	(p)	Rate
01 Fernie	1,567	58	115.5	0.50	-	37.01
02 Cranbrook	2,669	106	196.7	0.54	-	39.72
03 Kimberley	703	32	51.8	0.62	-	45.52
04 Windermere	861	27	63.5	0.43	-	31.36
05 Creston	1,327	62	97.8	0.63	-	46.72
06/07 Kootenay Lake/Nelson	2,790	128	205.6	0.62	-	45.88
09 Castlegar	1,275	74	94.0	0.79	-	58.04
10 Arrow Lakes	552	21	40.7	0.52	-	38.04
11 Trail	2,028	147	149.5	0.98		72.49
12/13 Grand Forks/Kettle Valley	1,056	73	77.8	0.94		69.13
14 Southern Okanagan	1,564	87	115.3	0.75	-	55.63
15 Penticton	3,744	407	275.9	1.48	+	108.71
16 Keremeos	482	6	35.5	0.17	-	12.45
17 Princeton	431	21	31.8	0.66		48.72
18 Golden	853	50	62.9	0.80		58.62
19 Revelstoke	974	57	71.8	0.79		58.52
20 Salmon Arm	2,640	79	194.6	0.41	-	29.92
21 Armstrong-Spallumcheen	887	27	65.4	0.41	-	30.44
22 Vernon	5,904	447	435.1	1.03		75.71
23 Central Okanagan	14,354	994	1,057.9	0.94	-	69.25
24 Kamloops	10,529	943	776.0	1.22	+	89.56
25 100 Mile House	1,471	93	108.4	0.86		63.22
26 North Thompson	557	24	41.1	0.58	-	43.09
27 Cariboo-Chilcotin	3,812	211	280.9	0.75	-	55.35
28 Quesnel	3,201	232	235.9	0.98		72.48
29 Lillooet	655	20	48.3	0.41	-	30.53
30 South Cariboo	848	37	62.5	0.59	-	43.63
31 Merritt	1,488	71	109.7	0.65	-	47.72
32 Hope	934	48	68.8	0.70	-	51.39
33 Chilliwack	8,770	552	646.3	0.85	-	62.94
34 Abbotsford	16,067	904	1,184.1	0.76	-	56.26
35 Langley	13,227	1,316	974.8	1.35	+	99.49
36 Surrey	49,229	3,445	3,628.1	0.95	-	69.98
37 Delta	11,560	584	852.0	0.69	-	50.52
38 Richmond	16,742	1,014	1,233.9	0.82	-	60.57
40 New Westminster	6,564	1,531	483.8	3.16	+	233.24
41 Burnaby	20,282	1,316	1,494.8	0.88	-	64.89
42 Maple Ridge	9,630	580	709.7	0.82	-	60.23
43 Coquitlam	22,845	1,087	1,683.7	0.65	-	47.58
44 North Vancouver	14,653	936	1,079.9	0.87	-	63.88
45 West Vancouver-Bowen Island	3,328	126	245.3	0.51	-	37.86
46 Sunshine Coast	2,589	160	190.8	0.84	-	61.80
47 Powell River	2,020	139	148.9	0.93		68.81
48 Howe Sound	3,896	185	287.1	0.64	-	47.49
49 Bella Coola Valley	534	28	39.4	0.71		52.43
50 Queen Charlotte	892	49	65.7	0.75	-	54.93
51 Snow Country	170	8	12.5	0.64		47.06
52 Prince Rupert	2,989	189	220.3	0.86	-	63.23
53 Upper Skeena	857	58	63.2	0.92		67.68
54 Smithers	2,905	173	214.1	0.81	-	59.55
55/93 Burns Lake/Eutsuk	1,154	68	85.1	0.80		58.93
56 Nechako	2,770	207	204.2	1.01		74.73
57 Prince George	13,463	1,226	992.2	1.24	+	91.06
59 Peace River South	4,018	237	296.1	0.80	-	58.99
60 Peace River North	4,789	212	353.0	0.60	-	44.27
61 Greater Victoria	19,791	1,333	1,458.6	0.91	-	67.35
62 Sooke	6,486	186	478.0	0.39	-	28.68
63 Saanich	4,570	185	336.8	0.55	-	40.48
64 Gulf Islands	1,021	47	75.3	0.62	-	46.03
65 Cowichan	5,528	408	407.4	1.00		73.81
66 Lake Cowichan	625	40	46.1	0.87		64.00
67 Ladysmith	1,806	77	133.1	0.58	-	42.64
68 Nanaimo	9,357	847	689.6	1.23	+	90.52
69 Qualicum	2,804	111	206.7	0.54	-	39.59
70 Alberni	3,878	197	285.8	0.69	-	50.80
71 Courtenay	5,671	395	418.0	0.95		69.65
72/84 Campbell River/Vancouver Isl. W.	5,066	286	373.4	0.77	-	56.46
75 Mission	4,780	261	352.3	0.74	-	54.60
76 Agassiz-Harrison	849	40	62.6	0.64	-	47.11
77 Summerland	891	70	65.7	1.07		78.56
78 Enderby	803	35	59.2	0.59	-	43.59
80 Kitimat	1,599	115	117.9	0.98		71.92
81 Fort Nelson	1,091	50	80.4	0.62	-	45.83
83 Central Coast	318	26	23.4	1.11		81.76
85 Vancouver Island North	2,162	99	159.3	0.62	-	45.79
87/94 Stikine/Telegraph Creek	245	12	18.1	0.66		48.98
88 Terrace	3,401	158	250.7	0.63	-	46.46
92 Nisga'a	365	32	26.9	1.19		87.67
161 Vancouver City Centre	5,779	703	425.9	1.65	+	121.65
162 Vancouver Downtown East Side	5,537	405	408.1	0.99		73.14
163 Vancouver North East	12,299	1,960	906.4	2.16	+	159.36
164 Vancouver West Side	10,129	542	746.5	0.73	-	53.51
165 Vancouver Midtown	11,748	2,770	865.8	3.20	+	235.79
166 Vancouver South	14,120	722	1,040.6	0.69	-	51.13
39 Vancouver Total	59,732	7,102	4,402.2	1.61	+	118.90
Provincial Total	449,435	33,123	33,123.0	1.00		73.70

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; sig. based on less than five observations is indicated as (+) sig. High (-) sig. Low. LHA assignment by address at time of birth, u/k LHA are incl. in Provincial Total.

Figure 16
Congenital Anomaly Diagnoses by Local Health Area
British Columbia, 1991 - 2000

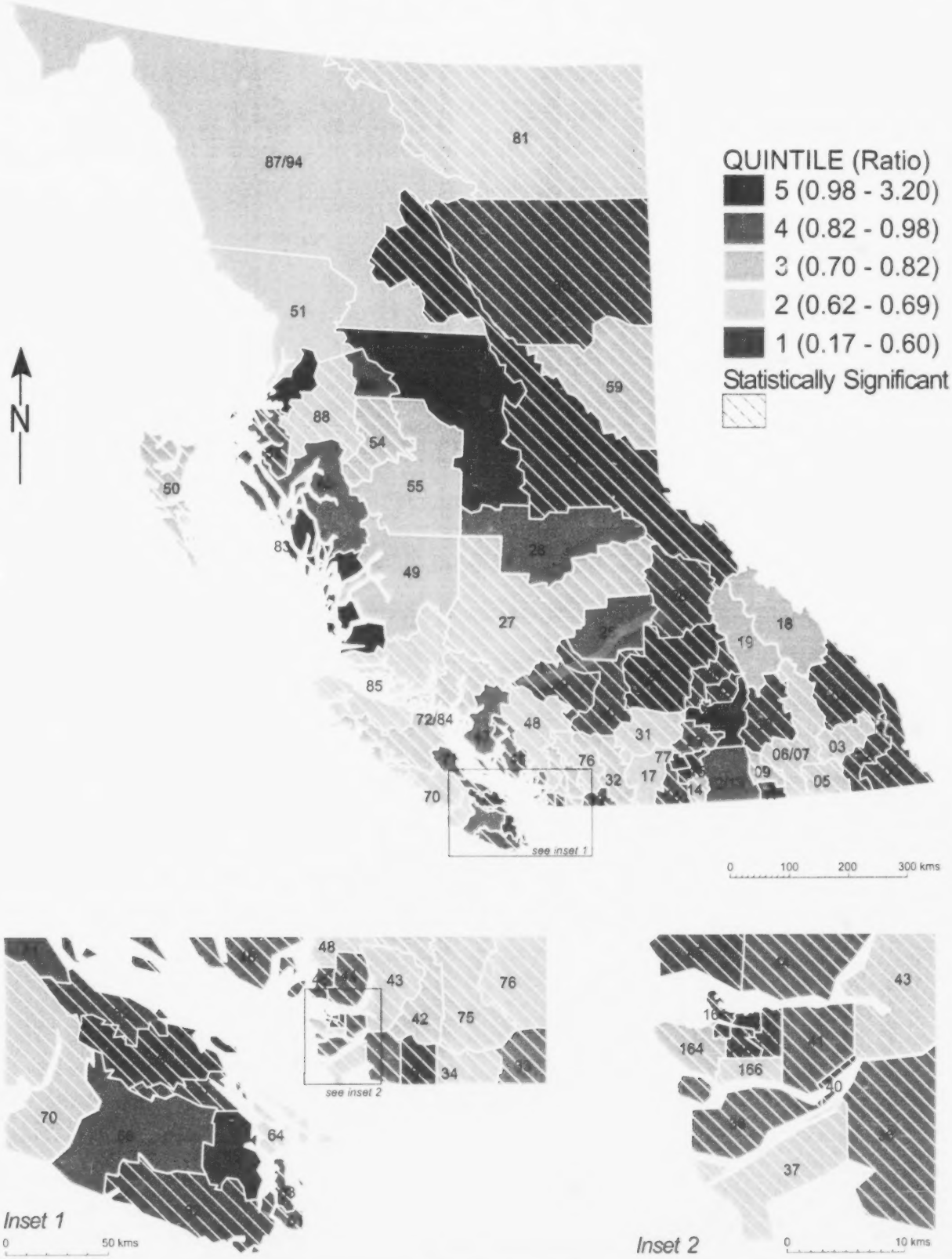


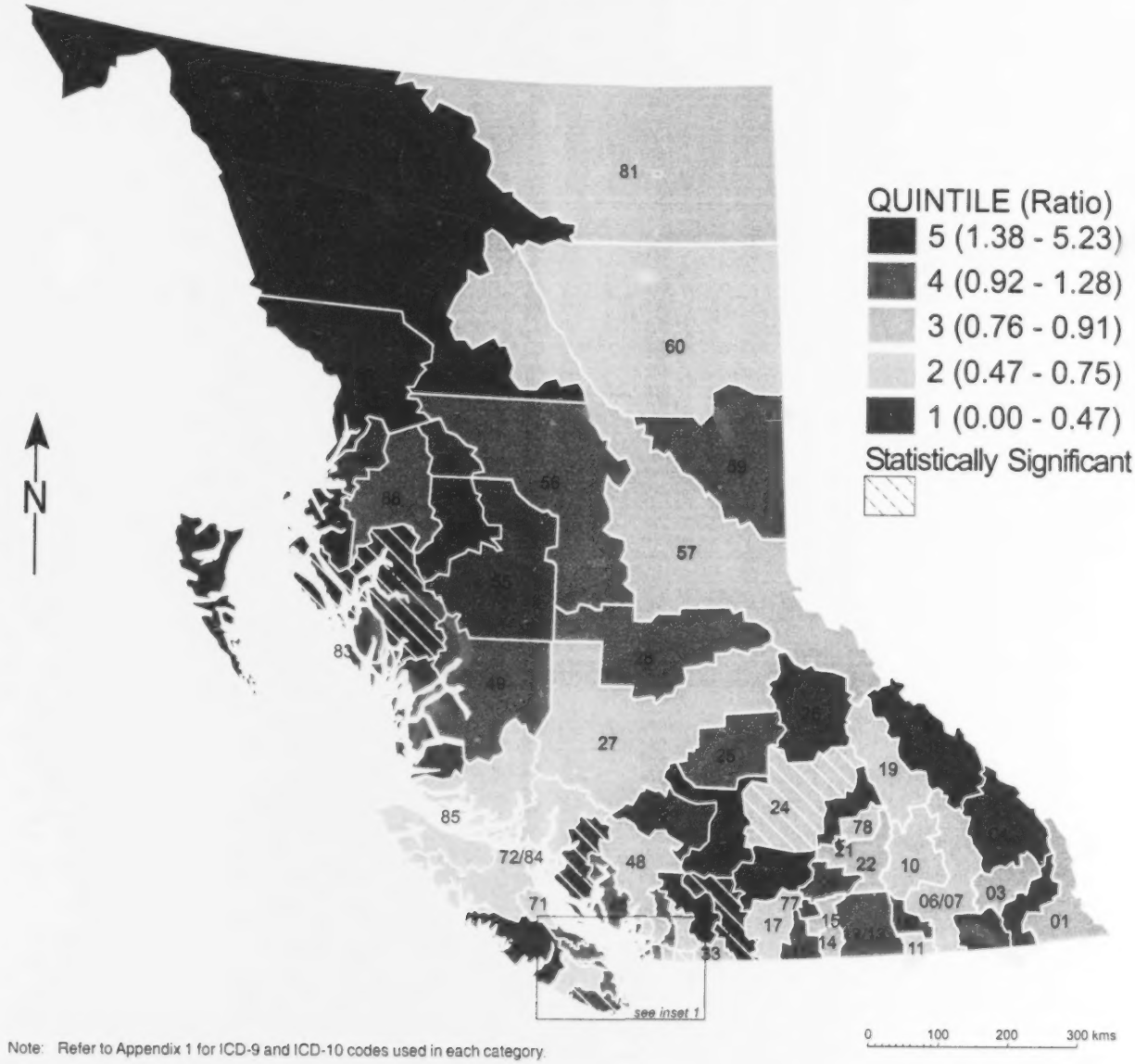
Table 35

Congenital Nervous System Defects by Local Health Area
British Columbia, 1991 - 2000

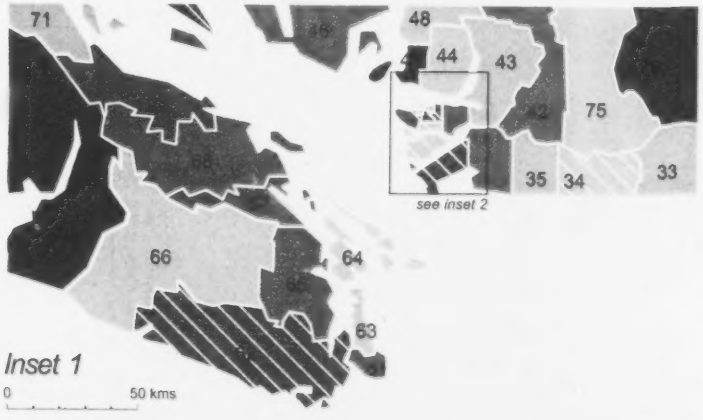
Local Health Area	Total Births	Observed	Expected	Ratio	(p)	Rate
01 Fernie	1,567	4	5.3	0.76		2.55
02 Cranbrook	2,669	3	9.0	0.33	(-)	1.12
03 Kimberley	703	2	2.4	0.84		2.85
04 Windermere	861	-	2.9	-		-
05 Creston	1,327	2	4.5	0.45		1.51
06/07 Kootenay Lake/Nelson	2,790	6	9.4	0.64		2.15
09 Castlegar	1,275	4	4.3	0.93		3.14
10 Arrow Lakes	552	1	1.9	0.54		1.81
11 Trail	2,028	5	6.9	0.73		2.47
12/13 Grand Forks/Kettle Valley	1,056	4	3.6	1.12		3.79
14 Southern Okanagan	1,564	4	5.3	0.76		2.56
15 Penticton	3,744	10	12.6	0.79		2.67
16 Keremeos	482	-	1.6	-		-
17 Princeton	431	1	1.5	0.69		2.32
18 Golden	853	4	2.9	1.39		4.69
19 Revelstoke	974	2	3.3	0.61		2.05
20 Salmon Arm	2,640	1	8.9	0.11	(-)	0.38
21 Armstrong-Spallumcheen	887	1	3.0	0.33		1.13
22 Vernon	5,904	17	19.9	0.85		2.88
23 Central Okanagan	14,354	56	48.5	1.16		3.90
24 Kamloops	10,529	21	35.5	0.59	-	1.99
25 100 Mile House	1,471	6	5.0	1.21		4.08
26 North Thompson	557	-	1.9	-		-
27 Cariboo-Chilcotin	3,812	10	12.9	0.78		2.62
28 Quesnel	3,201	10	10.8	0.93		3.12
29 Lillooet	655	1	2.2	0.45		1.53
30 South Cariboo	848	4	2.9	1.40		4.72
31 Merritt	1,488	7	5.0	1.39		4.70
32 Hope	934	8	3.2	2.54	+	8.57
33 Chilliwack	8,770	27	29.6	0.91		3.08
34 Abbotsford	16,067	38	54.2	0.70	-	2.37
35 Langley	13,227	35	44.7	0.78		2.65
36 Surrey	49,229	157	166.2	0.94		3.19
37 Delta	11,560	17	39.0	0.44	-	1.47
38 Richmond	16,742	32	56.5	0.57	-	1.91
40 New Westminster	6,564	46	22.2	2.08	+	7.01
41 Burnaby	20,282	69	68.5	1.01		3.40
42 Maple Ridge	9,630	32	32.5	0.98		3.32
43 Coquitlam	22,845	70	77.1	0.91		3.06
44 North Vancouver	14,653	37	49.5	0.75		2.53
45 West Vancouver-Bowen Island	3,328	17	11.2	1.51		5.11
46 Sunshine Coast	2,589	8	8.7	0.92		3.09
47 Powell River	2,020	12	6.8	1.76	+	5.94
48 Howe Sound	3,896	11	13.2	0.84		2.82
49 Bella Coola Valley	534	2	1.8	1.11		3.75
50 Queen Charlotte	892	6	3.0	1.99		6.73
51 Snow Country	170	3	0.6	5.23	(+)	17.65
52 Prince Rupert	2,989	15	10.1	1.49		5.02
53 Upper Skeena	857	1	2.9	0.35		1.17
54 Smithers	2,905	15	9.8	1.53		5.16
55/93 Burns Lake/Eutsuk	1,154	1	3.9	0.26		0.87
56 Nechako	2,770	12	9.4	1.28		4.33
57 Prince George	13,463	37	45.4	0.81		2.75
59 Peace River South	4,018	16	13.6	1.18		3.98
60 Peace River North	4,789	12	16.2	0.74		2.51
61 Greater Victoria	19,791	71	66.8	1.06		3.59
62 Sooke	6,48[illegible]	9	21.9	0.41	-	1.39
63 Saanich	4,570	12	15.4	0.78		2.63
64 Gulf Islands	1,021	2	3.5	0.58		1.96
65 Cowichan	5,528	21	18.7	1.13		3.80
66 Lake Cowichan	625	1	2.1	0.47		1.60
67 Ladysmith	1,806	7	6.1	1.15		3.88
68 Nanaimo	9,357	31	31.6	0.98		3.31
69 Qualicum	2,804	1	9.5	0.11	(-)	0.36
70 Alberni	3,878	18	13.1	1.38		4.64
71 Courtenay	5,671	16	19.1	0.84		2.82
72/84 Campbell River/Vancouver Isl. W.	5,066	9	17.1	0.53		1.78
75 Mission	4,780	11	16.1	0.68		2.30
76 Agassiz-Harrison	849	5	2.9	1.74		5.89
77 Summerland	891	1	3.0	0.33		1.12
78 Enderby	803	2	2.7	0.74		2.49
80 Kitimat	1,599	10	5.4	1.85	+	6.25
81 Fort Nelson	1,091	3	3.7	0.81		2.75
83 Central Coast	318	-	1.1	-		-
85 Vancouver Island North	2,162	4	7.3	0.55		1.85
87/94 Stikine/Telegraph Creek	245	3	0.8	3.63	(+)	12.24
88 Terrace	3,401	11	11.5	0.96		3.23
92 Nisga'a	365	-	1.2	-		-
161 Vancouver City Centre	5,779	17	19.5	0.87		2.94
162 Vancouver Downtown East Side	5,537	17	18.7	0.91		3.07
163 Vancouver North East	12,299	61	41.5	1.47	+	4.96
164 Vancouver West Side	10,129	16	34.2	0.47	-	1.58
165 Vancouver Midtown	11,748	190	39.7	4.79	+	16.17
166 Vancouver South	14,120	33	47.7	0.69	-	2.34
39 Vancouver Total	59,732	334	201.6	1.66	+	5.59
Provincial Total	449,435	1,517	1,517.0	1.00		3.38

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected (p<0.05, two tailed). + sig. High - sig. Low; sig. based on less than five observations is indicated as (+) sig. High (-) sig. Low. LHA assignment by address at time of birth, u/k LHA are incl. in Provincial Total.

Figure 17
Congenital Nervous System Defects by Local Health Area
British Columbia, 1991 - 2000



Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.



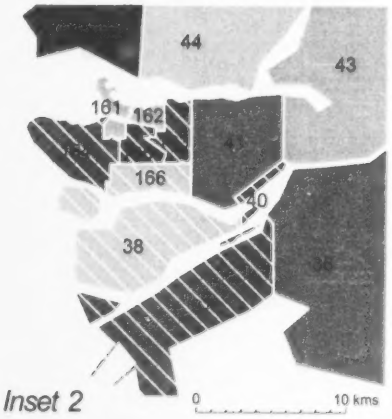


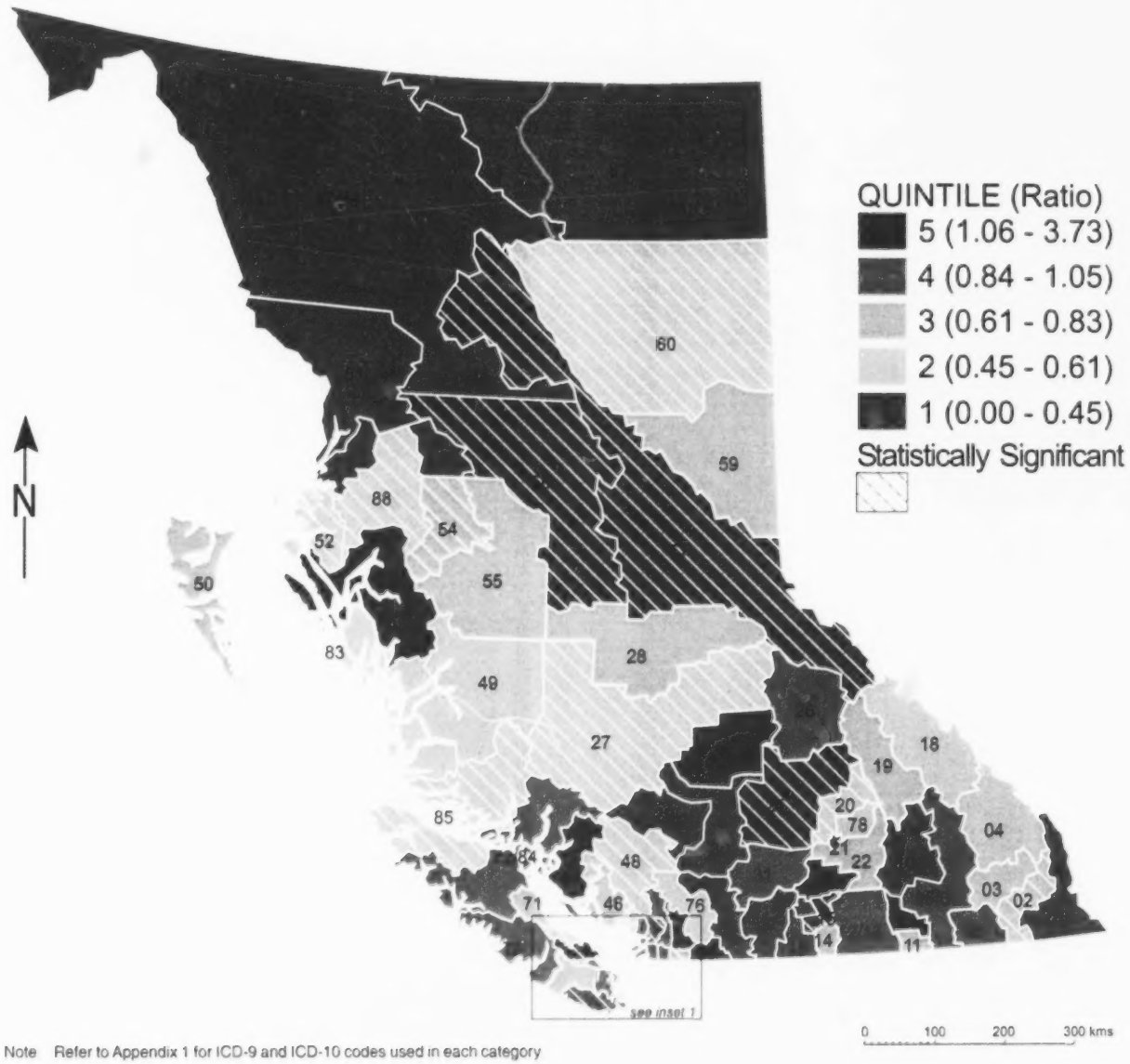
Table 36

Congenital Heart Defects by Local Health Area
British Columbia, 1991 - 2000

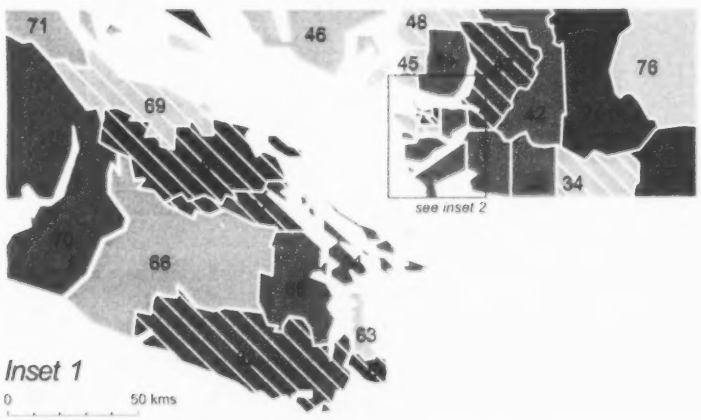
Local Health Area	Total Births	Observed	Expected	Ratio	(p)	Rate
01 Fernie	1,567	4	16.1	0.25	(-)	2.55
02 Cranbrook	2,669	13	27.5	0.47	-	4.87
03 Kimberley	703	4	7.2	0.55		5.69
04 Windermere	861	5	8.9	0.56		5.81
05 Creston	1,327	13	13.7	0.95		9.80
06/07 Kootenay Lake/Nelson	2,790	25	28.7	0.87		8.96
09 Castlegar	1,275	17	13.1	1.29		13.33
10 Arrow Lakes	552	2	5.7	0.35		3.62
11 Trail	2,028	13	20.9	0.62		6.41
12/13 Grand Forks/Kettle Valley	1,056	11	10.9	1.01		10.42
14 Southern Okanagan	1,564	10	16.1	0.62		6.39
15 Penticton	3,744	51	38.6	1.32	+	13.62
16 Keremeos	482	-	5.0	-		-
17 Princeton	431	2	4.4	0.45		4.64
18 Golden	853	4	8.8	0.46		4.69
19 Revelstoke	974	7	10.0	0.70		7.19
20 Salmon Arm	2,640	16	27.2	0.59	-	6.06
21 Armstrong-Spallumcheen	887	4	9.1	0.44		4.51
22 Vernon	5,904	47	60.8	0.77		7.96
23 Central Okanagan	14,354	156	147.8	1.06		10.87
24 Kamloops	10,529	175	108.4	1.61	+	16.62
25 100 Mile House	1,471	16	15.2	1.06		10.88
26 North Thompson	557	6	5.7	1.05		10.77
27 Cariboo-Chilcotin	3,812	21	39.3	0.53	-	5.51
28 Quesnel	3,201	26	33.0	0.79		8.12
29 Lillooet	655	3	6.8	0.44		4.58
30 South Cariboo	848	2	8.7	0.23	(-)	2.36
31 Merritt	1,488	14	15.3	0.91		9.41
32 Hope	934	-	9.6	-		-
33 Chilliwack	8,770	99	90.3	1.10		11.29
34 Abbotsford	16,067	136	165.5	0.82	-	8.46
35 Langley	13,227	122	136.2	0.90		9.22
36 Surrey	49,229	500	507.0	0.99		10.16
37 Delta	11,560	105	119.1	0.88		9.08
38 Richmond	16,742	152	172.4	0.88		9.08
40 New Westminster	6,564	120	67.6	1.77	+	18.28
41 Burnaby	20,282	181	208.9	0.87		8.92
42 Maple Ridge	9,630	84	99.2	0.85		8.72
43 Coquitlam	22,845	99	235.3	0.42	-	4.33
44 North Vancouver	14,653	127	150.9	0.84		8.67
45 West Vancouver-Bowen Island	3,328	16	34.3	0.47	-	4.81
46 Sunshine Coast	2,589	22	26.7	0.83		8.50
47 Powell River	2,020	24	20.8	1.15		11.88
48 Howe Sound	3,896	20	40.1	0.50	-	5.13
49 Bella Coola Valley	534	3	5.5	0.55		5.62
50 Queen Charlotte	892	7	9.2	0.76		7.85
51 Snow Country	170	-	1.8	-		-
52 Prince Rupert	2,989	14	30.8	0.45	-	4.68
53 Upper Skeena	857	2	8.8	0.23	(-)	2.33
54 Smithers	2,905	19	29.9	0.64	-	6.54
55/93 Burns Lake/Eutsuk	1,154	8	11.9	0.67		6.93
56 Nechako	2,770	39	28.5	1.37	+	14.08
57 Prince George	13,463	191	138.7	1.38	+	14.19
59 Peace River South	4,018	30	41.4	0.72		7.47
60 Peace River North	4,789	23	49.3	0.47	-	4.80
61 Greater Victoria	19,791	240	203.8	1.18	+	12.13
62 Sooke	6,486	28	66.8	0.42	-	4.32
63 Saanich	4,570	39	47.1	0.83		8.53
64 Gulf Islands	1,021	10	10.5	0.95		9.79
65 Cowichan	5,528	58	56.9	1.02		10.49
66 Lake Cowichan	625	4	6.4	0.62		6.40
67 Ladysmith	1,806	7	18.6	0.38	-	3.88
68 Nanaimo	9,357	116	96.4	1.20	+	12.40
69 Qualicum	2,804	14	28.9	0.48	-	4.99
70 Alberni	3,878	36	39.9	0.90		9.28
71 Courtenay	5,671	48	58.4	0.82		8.46
72/84 Campbell River/Vancouver Isl. W	5,066	45	52.2	0.86		8.88
75 Mission	4,780	53	49.2	1.08		11.09
76 Agassiz-Harrison	849	4	8.7	0.46		4.71
77 Summerland	891	3	9.2	0.33	(-)	3.37
78 Enderby	803	5	8.3	0.60		6.23
80 Kitimat	1,599	22	16.5	1.34		13.76
81 Fort Nelson	1,091	1	11.2	0.09	(-)	0.92
83 Central Coast	318	2	3.3	0.61		6.29
85 Vancouver Island North	2,162	13	22.3	0.58	-	6.01
87/94 Stikine/Telegraph Creek	245	-	2.5	-		-
88 Terrace	3,401	21	35.0	0.60	-	6.17
92 Nisga'a	365	1	3.8	0.27		2.74
161 Vancouver City Centre	5,779	98	59.5	1.65	+	16.96
162 Vancouver Downtown East Side	5,537	56	57.0	0.98		10.11
163 Vancouver North East	12,299	246	126.7	1.94	+	20.00
164 Vancouver West Side	10,129	64	104.3	0.61	-	6.32
165 Vancouver Midtown	11,748	451	121.0	3.73	+	38.39
166 Vancouver South	14,120	115	145.4	0.79	-	8.14
39 Vancouver Total	59,732	1,030	615.2	1.67	+	17.24
Provincial Total	449,435	4,629	4,629.0	1.00		10.30

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; sig. based on less than five observations is indicated as (+) sig. High (-) sig. Low. LHA assignment by address at time of birth, u/k LHA are incl. in Provincial Total.

Figure 18
Congenital Heart Defects by Local Health Area
British Columbia, 1991 - 2000



Note Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category



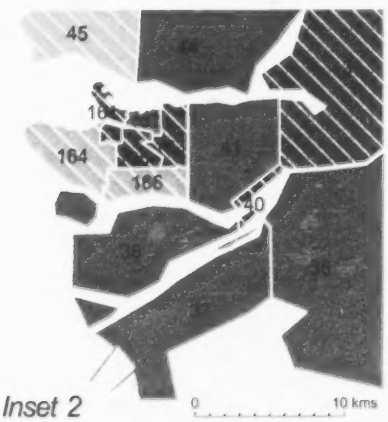


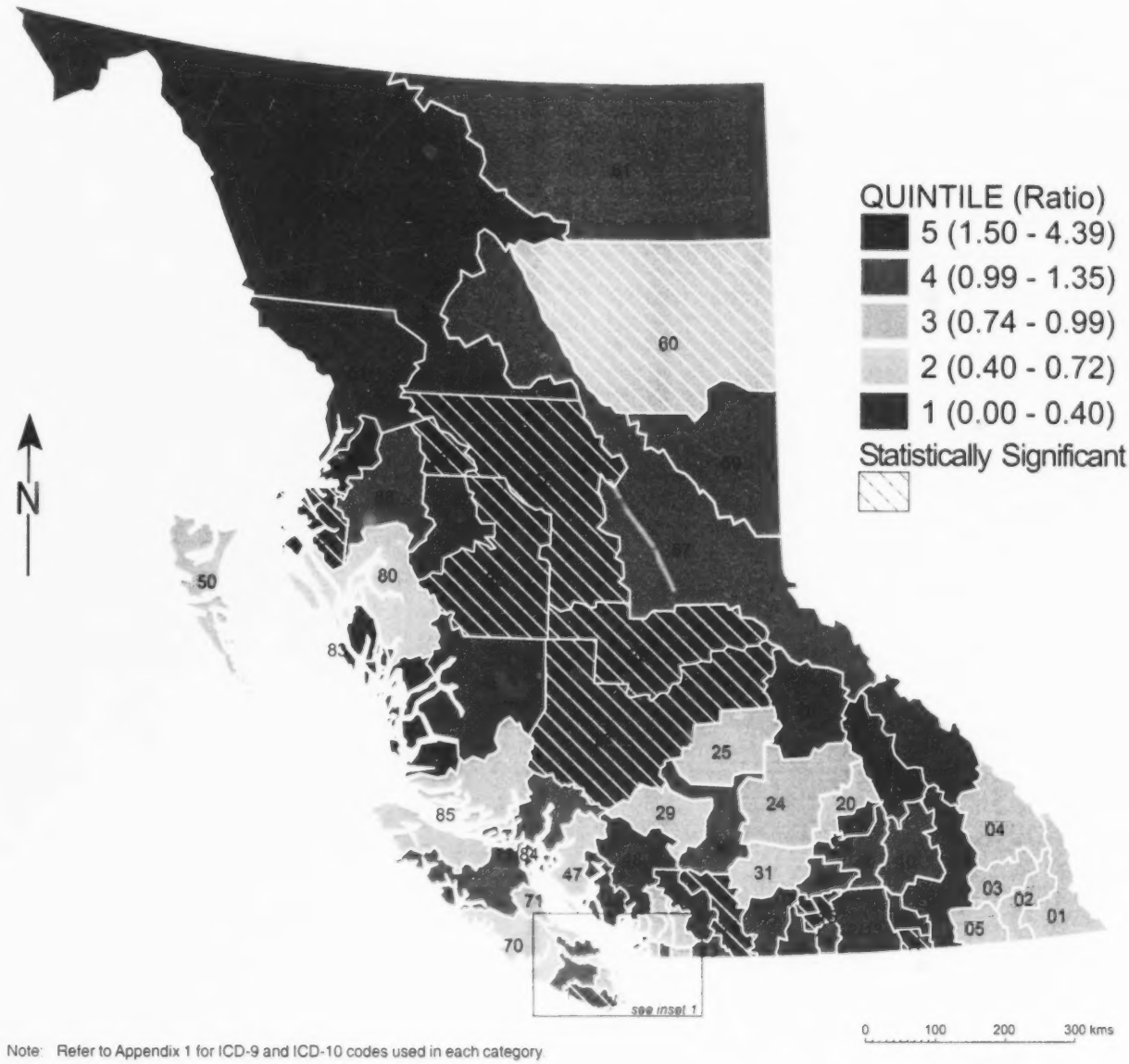
Table 37

Cleft Palate/Cleft Lip Defects by Local Health Area
British Columbia, 1991 - 2000

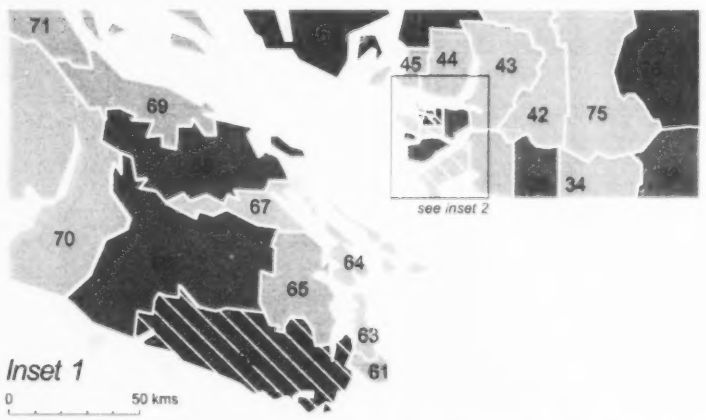
Local Health Area		Total Births	Observed	Expected	Ratio	(p)	Rate
01	Fernie	1,567	2	4.4	0.45		1.28
02	Cranbrook	2,669	4	7.5	0.53		1.50
03	Kimberley	703	1	2.0	0.51		1.42
04	Windermere	861	1	2.4	0.41		1.16
05	Creston	1,327	2	3.7	0.54		1.51
06/07	Kootenay Lake/Nelson	2,790	3	7.9	0.38		1.08
09	Castlegar	1,275	1	3.6	0.28		0.78
10	Arrow Lakes	552	2	1.6	1.29		3.62
11	Trail	2,028	13	5.7	2.28	+	6.41
12/13	Grand Forks/Kettle Valley	1,056	-	3.0	-		-
14	Southern Okanagan	1,564	5	4.4	1.14		3.20
15	Penticton	3,744	21	10.5	1.99	+	5.61
16	Keremeos	482	-	1.4	-		-
17	Princeton	431	-	1.2	-		-
18	Golden	853	-	2.4	-		-
19	Revelstoke	974	5	2.7	1.83		5.13
20	Salmon Arm	2,640	3	7.4	0.40		1.14
21	Armstrong-Spallumcheen	887	1	2.5	0.40		1.13
22	Vernon	5,904	19	16.6	1.14		3.22
23	Central Okanagan	14,354	40	40.4	0.99		2.79
24	Kamloops	10,529	27	29.6	0.91		2.56
25	100 Mile House	1,471	4	4.1	0.97		2.72
26	North Thompson	557	-	1.6	-		-
27	Cariboo-Chilcotin	3,812	18	10.7	1.68	+	4.72
28	Quesnel	3,201	16	9.0	1.78	+	5.00
29	Lillooet	655	1	1.8	0.54		1.53
30	South Cariboo	848	3	2.4	1.26		3.54
31	Merritt	1,488	3	4.2	0.72		2.02
32	Hope	934	6	2.6	2.28	+	6.42
33	Chilliwack	8,770	29	24.7	1.18		3.31
34	Abbotsford	16,067	35	45.2	0.77		2.18
35	Langley	13,227	47	37.2	1.26		3.55
36	Surrey	49,229	130	138.5	0.94		2.64
37	Delta	11,560	21	32.5	0.65	-	1.82
38	Richmond	16,742	50	47.1	1.06		2.99
40	New Westminster	6,564	37	18.5	2.00	+	5.64
41	Burnaby	20,282	60	57.0	1.05		2.96
42	Maple Ridge	9,630	20	27.1	0.74		2.08
43	Coquitlam	22,845	49	64.3	0.76		2.14
44	North Vancouver	14,653	39	41.2	0.95		2.66
45	West Vancouver-Bowen Island	3,328	7	9.4	0.75		2.10
46	Sunshine Coast	2,589	2	7.3	0.27		0.77
47	Powell River	2,020	5	5.7	0.88		2.48
48	Howe Sound	3,896	1	11.0	0.09	(-)	0.26
49	Bella Coola Valley	534	-	1.5	-		-
50	Queen Charlotte	892	2	2.5	0.80		2.24
51	Snow Country	170	-	0.5	-		-
52	Prince Rupert	2,989	17	8.4	2.02	+	5.69
53	Upper Skeena	857	7	2.4	2.90	+	8.17
54	Smithers	2,905	1	8.2	0.12	(-)	0.34
55/93	Burns Lake/Eutsuk	1,154	8	3.3	2.46	+	6.93
56	Nechako	2,770	15	7.8	1.93	+	5.42
57	Prince George	13,463	45	37.9	1.19		3.34
59	Peace River South	4,018	13	11.3	1.15		3.24
60	Peace River North	4,789	6	13.5	0.45	-	1.25
61	Greater Victoria	19,791	52	55.7	0.93		2.63
62	Sooke	6,486	6	18.2	0.33	-	0.93
63	Saanich	4,570	9	12.9	0.70		1.97
64	Gulf Islands	1,021	2	2.9	0.70		1.96
65	Cowichan	5,528	12	15.6	0.77		2.17
66	Lake Cowichan	625	2	1.8	1.14		3.20
67	Ladysmith	1,806	3	5.1	0.59		1.66
68	Nanaimo	9,357	29	26.3	1.10		3.10
69	Qualicum	2,804	7	7.9	0.89		2.50
70	Alberni	3,878	7	10.9	0.64		1.81
71	Courtenay	5,671	15	16.0	0.94		2.65
72/84	Campbell River/Vancouver Isl. W.	5,066	16	14.3	1.12		3.16
75	Mission	4,780	12	13.4	0.89		2.51
76	Agassiz-Harrison	849	-	2.4	-		-
77	Summerland	891	11	2.5	4.39	+	12.35
78	Enderby	803	-	2.3	-		-
80	Kitimat	1,599	3	4.5	0.67		1.88
81	Fort Nelson	1,091	4	3.1	1.30		3.67
83	Central Coast	318	2	0.9	2.24		6.29
85	Vancouver Island North	2,162	6	6.1	0.99		2.78
87/94	Stikine/Telegraph Creek	245	-	0.7	-		-
88	Terrace	3,401	11	9.6	1.15		3.23
92	Nisga'a	365	4	1.0	3.90	(+)	10.96
161	Vancouver City Centre	5,779	22	16.3	1.35		3.81
162	Vancouver Downtown East Side	5,537	27	15.6	1.73	+	4.88
163	Vancouver North East	12,299	52	34.6	1.50	+	4.23
164	Vancouver West Side	10,129	17	28.5	0.60	-	1.68
165	Vancouver Midtown	11,748	62	33.0	1.88	+	5.28
166	Vancouver South	14,120	23	39.7	0.58	-	1.63
39	**Vancouver Total**	59,732	203	168.0	1.21	+	3.40
	Provincial Total	449,435	1,264	1,264.0	1.00		2.81

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected ($p<0.05$, two tailed). + sig. High - sig. Low; sig. based on less than five observations is indicated as (+) sig. High (-) sig. Low. LHA assignment by address at time of birth, u/k LHA are incl. in Provincial Total.

Figure 19
Cleft Palate/Cleft Lip Defects by Local Health Area
British Columbia, 1991 - 2000



Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.



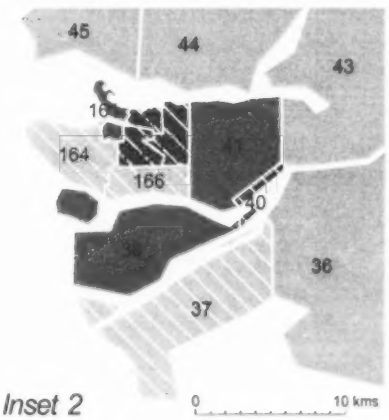


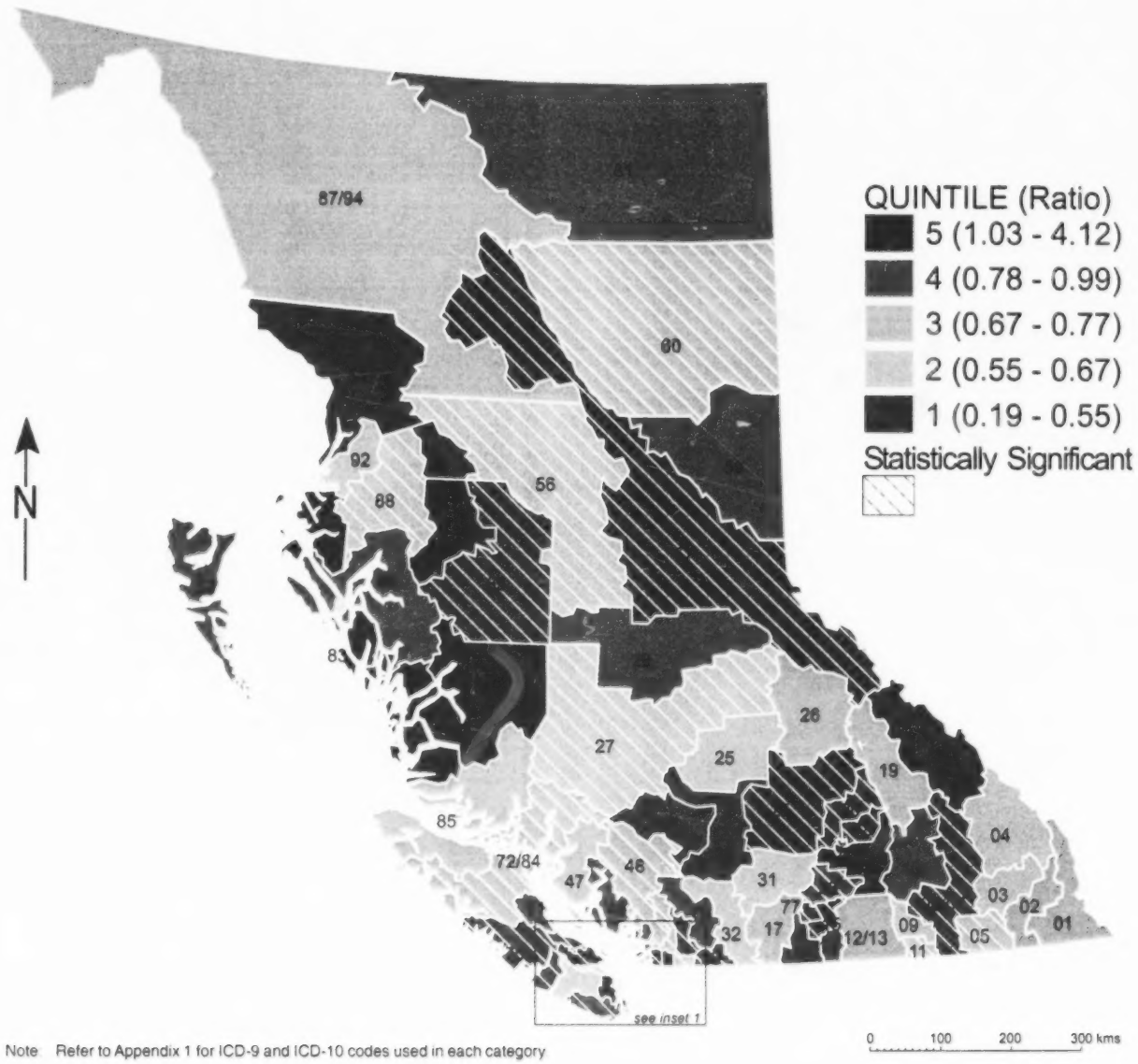
Table 38

Congenital Musculoskeletal Deformities by Local Health Area
British Columbia, 1991 - 2000

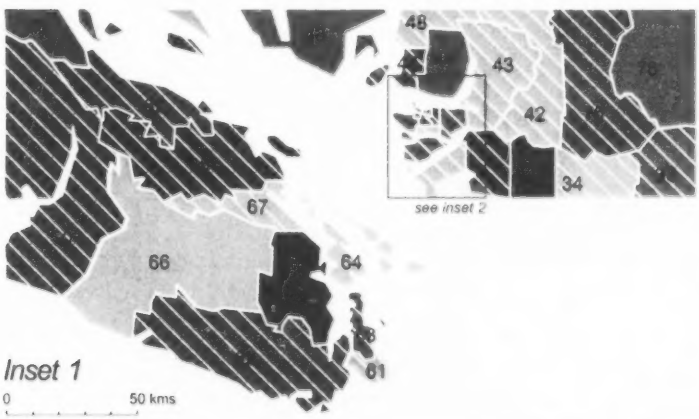
Local Health Area		Total Births	Observed	Expected	Ratio	(p)	Rate
01	Fernie	1,567	19	28 4	0 67		12 13
02	Cranbrook	2,669	37	48 3	0 77		13 86
03	Kimberley	703	8	12 7	0 63		11 38
04	Windermere	861	9	15 6	0 58		10 45
05	Creston	1,327	14	24 0	0 58	-	10 55
06/07	Kootenay Lake/Nelson	2,790	27	50 5	0 53	-	9 68
09	Castlegar	1,275	14	23 1	0 61		10 98
10	Arrow Lakes	552	8	10 0	0 80		14 49
11	Trail	2,028	24	36.7	0.65	-	11.83
12/13	Grand Forks/Kettle Valley	1,056	13	19 1	0 68		12 31
14	Southern Okanagan	1,564	24	28 3	0 85		15 35
15	Penticton	3,744	102	67 8	1 50	+	27 24
16	Keremeos	482	2	8 7	0 23	(-)	4 15
17	Princeton	431	6	7 8	0 77		13 92
18	Golden	853	19	15 4	1 23		22 27
19	Revelstoke	974	12	17 6	0 68		12 32
20	Salmon Arm	2,640	9	47 8	0 19	-	3 41
21	Armstrong-Spallumcheen	887	8	16 1	0 50	-	9 02
22	Vernon	5,904	118	106 9	1 10		19 99
23	Central Okanagan	14,354	203	259 9	0 78	-	14 14
24	Kamloops	10,529	234	190 6	1 23	+	22 22
25	100 Mile House	1,471	17	26 6	0 64		11 56
26	North Thompson	557	7	10 1	0 69		12 57
27	Cariboo-Chilcotin	3,812	43	69 0	0 62	-	11 28
28	Quesnel	3,201	47	58 0	0 81		14 68
29	Lillooet	655	3	11 9	0 25	(-)	4 58
30	South Cariboo	848	8	15 4	0 52		9 43
31	Merritt	1,488	17	26 9	0 63		11 42
32	Hope	934	11	16 9	0 65		11 78
33	Chilliwack	8,770	132	158 8	0 83	-	15 05
34	Abbotsford	16,067	185	290 9	0 64	-	11 51
35	Langley	13,227	257	239 4	1 07		19 43
36	Surrey	49,229	953	891 2	1 07	+	19.36
37	Delta	11,560	143	209 3	0 68	-	12 37
38	Richmond	16,742	266	303 1	0 88	-	15 89
40	New Westminster	6,564	490	118.8	4.12	+	74.65
41	Burnaby	20,282	294	367 2	0 80	-	14 50
42	Maple Ridge	9,630	133	174 3	0 76	-	13 81
43	Coquitlam	22,845	305	413 6	0 74	-	13 35
44	North Vancouver	14,653	245	265 3	0 92		16 72
45	West Vancouver-Bowen Island	3,328	33	60 3	0 55	-	9 92
46	Sunshine Coast	2,589	40	46.9	0.85		15.45
47	Powell River	2,020	25	36 6	0 68		12 38
48	Howe Sound	3,896	51	70 5	0 72	-	13 09
49	Bella Coola Valley	534	10	9 7	1 03		18 73
50	Queen Charlotte	892	13	16 2	0 81		14 57
51	Snow Country	170	1	3 1	0 32		5 88
52	Prince Rupert	2,989	62	54 1	1 15		20 74
53	Upper Skeena	857	8	15 5	0 52		9 33
54	Smithers	2,905	55	52 6	1 05		18 93
55/93	Burns Lake/Eutsuk	1,154	9	20 9	0 43	-	7 80
56	Nechako	2,770	33	50 1	0 66	-	11 91
57	Prince George	13,463	323	243 7	1 33	+	23 99
59	Peace River South	4,018	65	72.7	0.89		16.18
60	Peace River North	4,789	59	86 7	0 68	-	12 32
61	Greater Victoria	19,791	270	358 3	0 75	-	13 64
62	Sooke	6,486	43	117 4	0 37	-	6 63
63	Saanich	4,570	34	82 7	0 41	-	7 44
64	Gulf Islands	1,021	11	18 5	0 60		10 77
65	Cowichan	5,528	103	100.1	1.03		18.63
66	Lake Cowichan	625	7	11 3	0 62		11 20
67	Ladysmith	1,806	18	32.7	0 55	-	9 97
68	Nanaimo	9,357	203	169.4	1.20	+	21.70
69	Qualicum	2,804	27	50 8	0 53	-	9 63
70	Alberni	3,878	33	70 2	0 47	-	8 51
71	Courtenay	5,671	102	102 7	0 99		17 99
72/84	Campbell River/Vancouver Isl. W.	5,066	62	91 7	0 68	-	12 24
75	Mission	4,780	42	86.5	0 49	-	8 79
76	Agassiz-Harrison	849	13	15 4	0 85		15 31
77	Summerland	891	7	16 1	0 43	-	7 86
78	Enderby	803	5	14.5	0 34	-	6 23
80	Kitimat	1,599	28	29 0	0 97		17 51
81	Fort Nelson	1,091	17	19 8	0 86		15 58
83	Central Coast	318	6	5 8	1 04		18 87
85	Vancouver Island North	2,162	27	39 1	0 69		12 49
87/94	Stikine/Telegraph Creek	245	3	4 4	0 68		12 24
88	Terrace	3,401	36	61 6	0 58	-	10 59
92	Nisga'a	365	4	6 6	0 61		10 96
161	Vancouver City Centre	5,779	185	104 6	1 77	+	32 01
162	Vancouver Downtown East Side	5,537	99	100 2	0 99		17 88
163	Vancouver North East	12,299	545	222 7	2 45	+	44 31
164	Vancouver West Side	10,129	166	183 4	0 91		16 39
165	Vancouver Midtown	11,748	609	212 7	2 86	+	51 84
166	Vancouver South	14,120	171	255 6	0 67	-	12 11
39	**Vancouver Total**	59,732	1,775	1,081 3	1 64	+	29 72
	Provincial Total	449,435	8,136	8,136 0	1 00		18 10

Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected (p<0 05, two tailed) + sig. High - sig. Low; sig. based on less than five observations is indicated as (+) sig. High (-) sig. Low. LHA assignment by address at time of birth, u/k LHA are incl. in Provincial Total

Figure 20
Congenital Musculoskeletal Deformities by Local Health Area
British Columbia, 1991 - 2000



Note Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category



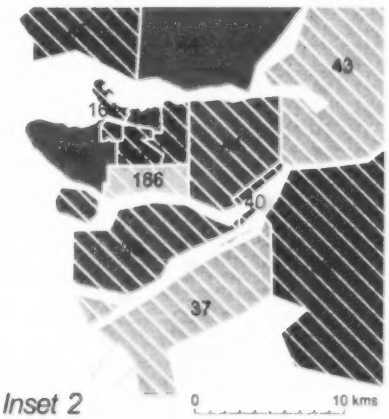


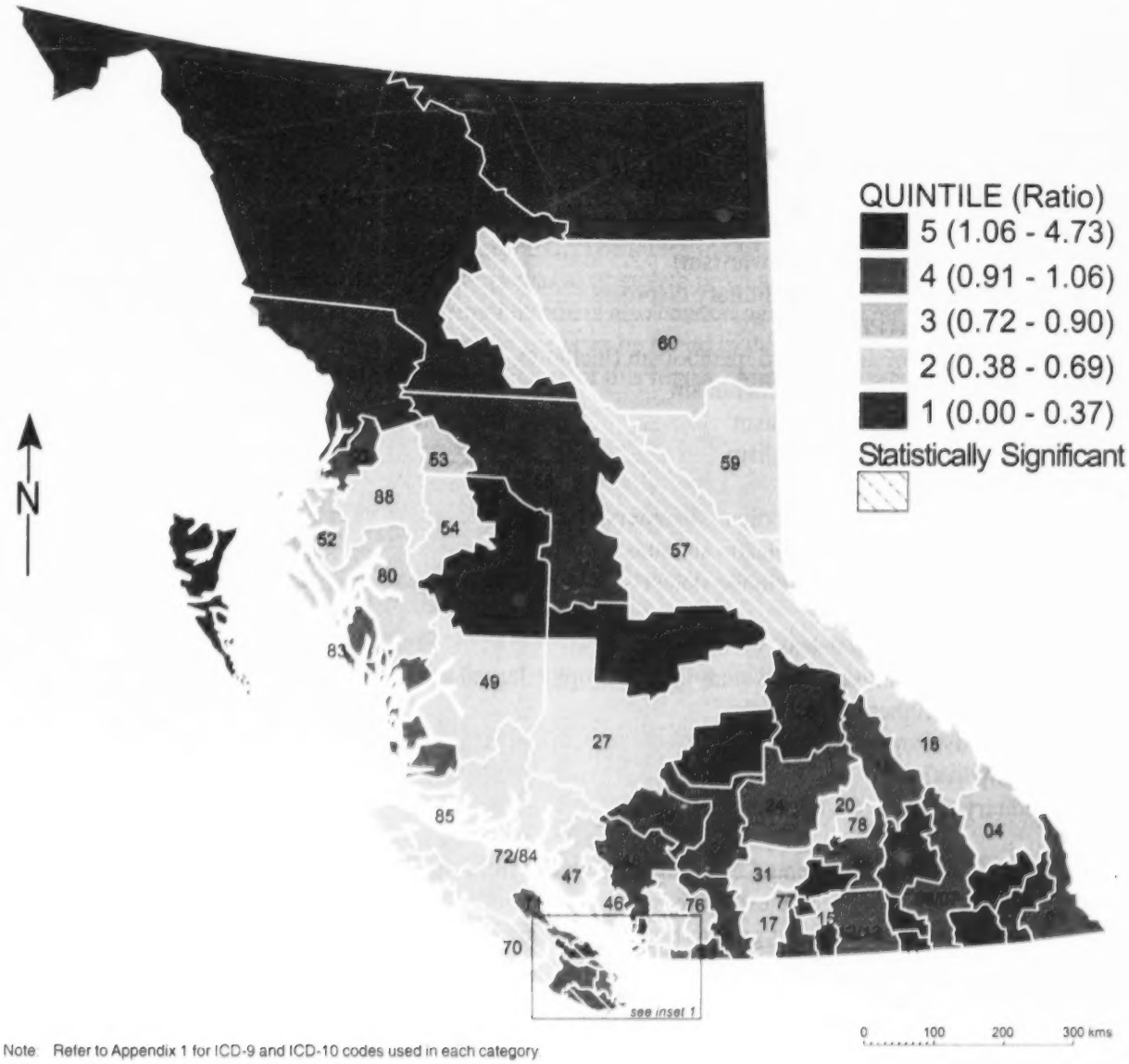
Table 39

Chromosomal Anomalies by Local Health Area
British Columbia, 1991 - 2000

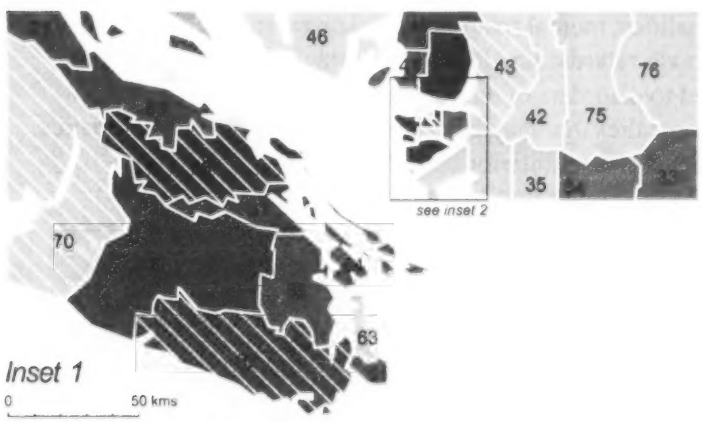
Local Health Area		Total Births	Observed	Expected	Ratio	(p)	Rate
01	Fernie	1,567	5	4.7	1.06		3.19
02	Cranbrook	2,669	2	8.1	0.25	(-)	0.75
03	Kimberley	703	3	2.1	1.41		4.27
04	Windermere	861	2	2.6	0.77		2.32
05	Creston	1,327	7	4.0	1.75		5.28
06/07	Kootenay Lake/Nelson	2,790	8	8.4	0.95		2.87
09	Castlegar	1,275	6	3.9	1.56		4.71
10	Arrow Lakes	552	-	1.7	-		-
11	Trail	2,028	7	6.1	1.14		3.45
12/13	Grand Forks/Kettle Valley	1,056	3	3.2	0.94		2.84
14	Southern Okanagan	1,564	5	4.7	1.06		3.20
15	Penticton	3,744	6	11.3	0.53		1.60
16	Keremeos	482	-	1.5	-		-
17	Princeton	431	1	1.3	0.77		2.32
18	Golden	853	1	2.6	0.39		1.17
19	Revelstoke	974	3	2.9	1.02		3.08
20	Salmon Arm	2,640	4	8.0	0.50		1.52
21	Armstrong-Spallumcheen	887	-	2.7	-		-
22	Vernon	5,904	18	17.8	1.01		3.05
23	Central Okanagan	14,354	54	43.4	1.25		3.76
24	Kamloops	10,529	32	31.8	1.01		3.04
25	100 Mile House	1,471	5	4.4	1.12		3.40
26	North Thompson	557	-	1.7	-		-
27	Cariboo-Chilcotin	3,812	5	11.5	0.43		1.31
28	Quesnel	3,201	11	9.7	1.14		3.44
29	Lillooet	655	-	2.0	-		-
30	South Cariboo	848	-	2.6	-		-
31	Merritt	1,488	4	4.5	0.89		2.69
32	Hope	934	1	2.8	0.35		1.07
33	Chilliwack	8,770	24	26.5	0.91		2.74
34	Abbotsford	16,067	49	48.6	1.01		3.05
35	Langley	13,227	35	40.0	0.88		2.65
36	Surrey	49,229	126	148.8	0.85		2.56
37	Delta	11,560	31	34.9	0.89		2.68
38	Richmond	16,742	54	50.6	1.07		3.23
40	New Westminster	6,564	46	19.8	2.32	+	7.01
41	Burnaby	20,282	56	61.3	0.91		2.76
42	Maple Ridge	9,630	20	29.1	0.69		2.08
43	Coquitlam	22,845	38	69.0	0.55	-	1.66
44	North Vancouver	14,653	48	44.3	1.08		3.28
45	West Vancouver-Bowen Island	3,328	10	10.1	0.99		3.00
46	Sunshine Coast	2,589	3	7.8	0.38		1.16
47	Powell River	2,020	5	6.1	0.82		2.48
48	Howe Sound	3,896	3	11.8	0.25	(-)	0.77
49	Bella Coola Valley	534	1	1.6	0.62		1.87
50	Queen Charlotte	892	4	2.7	1.48		4.48
51	Snow Country	170	-	0.5	-		-
52	Prince Rupert	2,989	7	9.0	0.78		2.34
53	Upper Skeena	857	2	2.6	0.77		2.33
54	Smithers	2,905	4	8.8	0.46		1.38
55/93	Burns Lake/Eutsuk	1,154	4	3.5	1.15		3.47
56	Nechako	2,770	2	8.4	0.24	(-)	0.72
57	Prince George	13,463	24	40.7	0.59	-	1.78
59	Peace River South	4,018	8	12.1	0.66		1.99
60	Peace River North	4,789	13	14.5	0.90		2.71
61	Greater Victoria	19,791	63	59.8	1.05		3.18
62	Sooke	6,486	7	19.6	0.36	-	1.08
63	Saanich	4,570	10	13.8	0.72		2.19
64	Gulf Islands	1,021	3	3.1	0.97		2.94
65	Cowichan	5,528	17	16.7	1.02		3.08
66	Lake Cowichan	625	-	1.9	-		-
67	Ladysmith	1,806	1	5.5	0.18		0.55
68	Nanaimo	9,357	49	28.3	1.73	+	5.24
69	Qualicum	2,804	8	8.5	0.94		2.85
70	Alberni	3,878	5	11.7	0.43	-	1.29
71	Courtenay	5,671	18	17.1	1.05		3.17
72/84	Campbell River/Vancouver Isl. W	5,066	8	15.3	0.52		1.58
75	Mission	4,780	11	14.4	0.76		2.30
76	Agassiz-Harrison	849	2	2.6	0.78		2.36
77	Summerland	891	1	2.7	0.37		1.12
78	Enderby	803	1	2.4	0.41		1.25
80	Kitimat	1,599	4	4.8	0.83		2.50
81	Fort Nelson	1,091	-	3.3	-		-
83	Central Coast	318	1	1.0	1.04		3.14
85	Vancouver Island North	2,162	4	6.5	0.61		1.85
87/94	Stikine/Telegraph Creek	245	-	0.7	-		-
88	Terrace	3,401	6	10.3	0.58		1.76
92	Nisga'a	365	1	1.1	0.91		2.74
161	Vancouver City Centre	5,779	15	17.5	0.86		2.60
162	Vancouver Downtown East Side	5,537	13	16.7	0.78		2.35
163	Vancouver North East	12,299	69	37.2	1.86	+	5.61
164	Vancouver West Side	10,129	33	30.6	1.08		3.26
165	Vancouver Midtown	11,748	168	35.5	4.73	+	14.30
166	Vancouver South	14,120	20	42.7	0.47	-	1.42
39	**Vancouver Total**	59,732	318	180.5	1.76	+	5.32
	Provincial Total	449,435	1,358	1,358.0	1.00		3.02

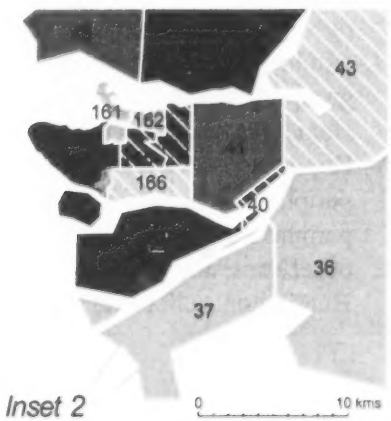
Notes: Rate per 1,000 Total births (Live births and Stillbirths). (p) indicates a statistically significant difference between the observed and expected (p<0.05, two tailed). + sig. High - sig. Low; sig. based on less than five observations is indicated as (+) sig. High (-) sig. Low. LHA assignment by address at time of birth, u/k LHA are incl. in Provincial Total.

Figure 21
Chromosomal Anomalies by Local Health Area
British Columbia, 1991 - 2000



Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category





Section 4: Other Genetic Conditions

Introduction

The majority of genetic abnormalities among infants and children are manifested by anomalous structural development. However, a smaller percent of newborn infants have hereditary malformations, neurological disorders, or inborn errors of metabolism that are revealed as functional disturbances with little or no initial physical abnormality. This section of the report focuses on these "other genetic" conditions which include:

- congenital syphilis
- acromegaly/gigantism
- hypopituitarism (including dwarfism)
- hyperpituitarism and other pituitary disorders
- phenylketonuria (PKU)
- other disorders of amino-acid metabolism (including Rett's syndrome)
- disorders of carbohydrate metabolism
- disorders of protein metabolism
- disorders of mineral metabolism
- cystic fibrosis
- other and unspecified metabolism disorders
- hereditary hemolytic and aplastic anemias
- hemophilia and other coagulation defects
- Huntington's chorea
- other extrapyramidal diseases
- anterior horn cell diseases (excluding amyotrophic lateral sclerosis)
- hereditary peripheral neuropathy
- muscular dystrophy
- other myopathies
- hereditary disturbance in tooth structure

Although the conditions presented can range in severity from relatively insignificant to incompatible with life; most fall in between these extremes.

- Pituitary disorders can affect growth hormone production resulting in gigantism (acromegaly) or dwarfism.
- Phenylketonuria (PKU), the various metabolism disorders, and cystic fibrosis represent many of the inborn errors of metabolism that are now known to originate from gene mutations. The mode of transmission is usually recessive, making them relatively rare in the general population. The metabolic disorders may have clinical effects in almost any body system; many of these dysfunctions result in neurologic abnormalities, mental retardation, seizures, spasticity, and vomiting or malabsorption leading to growth retardation. Rett's syndrome is included in this grouping because it was previously coded to disorders of amino-acid metabolism.
- Hemolytic anemias are also functional anomalies that may be caused by hereditary characteristics.
- Huntington's chorea, other extrapyramidal diseases, anterior horn cell diseases, hereditary peripheral neuropathy, muscular dystrophy, and other myopathies are all disorders of the peripheral motor and sensory systems. The clinical effects of these disorders include depression of reflexes, abnormal movements, weakness, various degrees of muscle atrophy, and paralysis. Huntington's chorea is dominantly inherited, unlike most of the other disorders in this group.

This section of the report provides information on the prevalence of genetic conditions in the provincial population as of year-end, 2000 as reported to the HSR. Table 40 provides prevalence counts for the various genetic conditions by age group at the provincial level. Tables providing the same information for each HA and HSDA follow. Counts could not be provided by local health area because of the relatively small numbers of these other genetic conditions registered with the HSR. Geographic assignment was based on the address from the last contact with an HSR reporting source; individuals who had died were excluded. If an individual had more than one diagnosed genetic condition within a category, they were only counted once for that category. However, individuals with genetic conditions in more than one category were counted in each category.

Many genetic conditions do not produce symptoms that are apparent at birth so complete reporting from sources other than Vital Statistics is essential. The tables in this section reflect the information reported to the HSR and should not be interpreted as complete provincial or regional statistics. Variability in the level of reporting and small numbers also caution against making regional comparisons. Additional caveats affecting the data can be found in the Guide to Data Interpretation in the General Information section at the beginning of this report. Appendix I provides ICD codes for genetic conditions shown in this section of the report.

Highlights

There were 4,210 diagnoses of "other genetic conditions" registered with the HSR in 4,030 individuals living in the province at year-end 2000.

Hereditary hemolytic and aplastic anemias were the genetic conditions most frequently reported to the HSR (576 diagnoses) among individuals living in the province. Two thirds of the individuals with these anemias (66.0%) were under the age of 25 years old. HSDA 32 Vancouver had the highest prevalence of this condition among health service delivery areas (with 182 individuals), and Vancouver Coastal HA had the highest prevalence among health authorities (255 cases). Another 163 individuals with anemias lived in the Fraser HA.

Hemophilia and other coagulation defects were the second most frequent group of genetic conditions reported to the HSR (with 485 diagnoses). Almost all (93.2%) of the individuals with these conditions were less than 55 years old, and the majority (52.8%) were under 30. Fraser and Vancouver Coastal Health Authorities had 133 and 131 individuals (respectively) with hemophilia and other coagulations defects. The highest prevalence among health service delivery areas was in 32 Vancouver (98 cases), followed by 23 South Fraser (57 cases) and 22 Simon Fraser (55 cases).

Cystic fibrosis (CF), a recessive disorder characterised by chronic airway infection, was the third most frequent group of other genetic conditions reported (480 diagnoses). In previous generations, few individuals with CF lived to adulthood. Due to improvements in therapy, about a quarter of CF children are now expected to reach adulthood and one in ten is expected to live past the age of 30. More than two thirds of the CF individuals (68.8%) were under the age of 30. With 151 cases Fraser HA had the highest prevalence; 80 of these cases lived in HSDA 23 South Fraser.

Muscular dystrophy was the fourth largest category of other genetic conditions with 329 diagnoses that include congenital benign and progressive types of this condition. Life expectancy is reduced but those with milder forms survive into their fourth and fifth decade. About three quarters (74.8%) of the individuals with muscular dystrophy were under the age of 50. Fraser HA had the highest prevalence with 107 cases. 22 Simon Fraser, 32 Vancouver, and 23 South Fraser had the highest prevalence among health service delivery areas (with 43, 41, and 40 cases respectively).

Table 40

Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

Provincial Total

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	4	1	3	-	1	-	-	-	-	-	-	1	-	-	4	14	0.3
Acromegaly/gigantism	1	-	5	-	2	2	2	1	4	-	-	1	1	-	-	2	21	0.5
Hypopituitarism (includes dwarfism)	3	18	17	15	33	19	12	13	14	9	4	10	2	3	2	3	177	4.2
Hyperpituitarism & other pituitary disor.	-	5	8	12	19	21	12	10	10	20	9	6	4	2	1	12	151	3.6
Phenylketonuria (PKU)	5	6	27	21	23	16	14	7	14	9	7	5	4	3	1	2	164	3.9
Other dis.of amino-acid metabolism	2	13	12	16	18	10	15	12	15	14	18	14	7	3	4	7	180	4.3
Disorders of carbohydrate trans./metab.	3	12	26	17	10	7	10	8	5	1	3	3	2	-	-	-	107	2.5
Disorders of protein metabolism	2	28	9	6	13	5	1	1	-	-	2	-	2	-	1	2	72	1.7
Disorders of mineral metabolism	5	47	31	31	51	25	15	13	16	19	16	10	7	2	2	13	303	7.2
Cystic fibrosis	7	33	63	66	63	55	43	53	34	32	17	8	5	-	1	-	480	11.4
Other and unspecified disorders of metab.	1	15	26	27	22	18	15	11	12	17	10	13	5	4	5	8	209	5.0
Hereditary hemolytic & aplastic anemias	9	73	74	59	99	66	35	26	34	37	31	18	5	2	4	4	576	13.7
Hemophilia and other coagulation defects	5	44	45	57	48	25	32	53	37	51	27	28	14	8	5	6	485	11.5
Huntington's chorea	-	-	-	1	1	1	1	2	4	11	9	10	11	9	7	17	84	2.0
Other extrapyramidal diseases	4	19	17	19	19	11	4	6	11	16	17	6	12	9	8	19	197	4.7
Anterior horn cell diseases (excl. ALS)	-	1	7	2	7	7	6	6	8	7	6	2	-	2	1	-	62	1.5
Hereditary peripheral neuropathy	1	7	10	15	28	15	16	25	16	21	20	23	2	11	12	41	263	6.2
Muscular dystrophy	-	9	14	21	16	36	28	26	36	34	26	21	20	6	13	23	329	7.8
Other myopathies	-	15	9	14	13	17	14	17	22	22	22	13	6	8	-	15	207	4.9
Hereditary disturbance in tooth structure	10	28	10	15	15	19	7	4	10	5	-	1	3	1	-	1	129	3.1
Total Diagnoses	58	377	411	417	500	376	282	294	302	325	244	192	113	73	67	179	4,210	100.0
Total Cases	53	342	370	392	471	360	281	287	294	322	242	186	113	73	66	178	4,030	

Table 41

Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

01 Interior HA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.2
Acromegaly/gigantism	1	-	1	-	-	-	-	1	1	-	-	-	1	-	-	-	5	0.8
Hypopituitarism (includes dwarfism)	1	3	2	3	6	5	3	3	3	-	1	3	1	1	-	1	36	5.5
Hyperpituitarism & other pituitary disor.	-	1	-	2	6	5	1	1	2	2	2	-	1	2	-	3	28	4.3
Phenylketonuria (PKU)	1	2	3	6	5	3	1	2	4	4	-	1	1	-	-	-	33	5.0
Other dis.of amino-acid metabolism	-	2	2	4	7	2	2	1	1	4	1	2	-	-	3	2	33	5.0
Disorders of carbohydrate trans./metab.	2	1	1	4	2	2	1	-	1	1	1	-	-	-	-	-	16	2.4
Disorders of protein metabolism	1	2	4	1	2	-	-	-	-	-	1	-	1	-	-	-	12	1.8
Disorders of mineral metabolism	1	4	5	3	6	3	-	2	2	5	5	1	-	-	1	5	43	6.6
Cystic fibrosis	-	4	9	11	19	17	7	9	8	4	3	3	1	-	-	-	95	14.5
Other and unspecified disorders of metab.	-	1	2	2	4	2	3	3	2	2	1	1	1	-	2	2	28	4.3
Hereditary hemolytic & aplastic anemias	-	2	6	4	6	7	4	3	4	5	4	-	-	-	1	2	48	7.3
Hemophilia and other coagulation defects	-	6	9	9	9	8	6	7	8	14	7	4	4	1	-	1	93	14.2
Huntington's chorea	-	-	-	-	-	-	-	-	1	-	1	1	1	-	1	-	5	0.8
Other extrapyramidal diseases	1	3	3	4	2	2	1	-	2	3	3	-	2	-	2	3	31	4.7
Anterior horn cell diseases (excl. ALS)	-	-	1	-	-	1	-	-	1	2	-	-	-	-	-	-	5	0.8
Hereditary peripheral neuropathy	-	-	1	-	5	2	5	6	2	2	3	2	1	1	2	6	38	5.8
Muscular dystrophy	-	-	8	2	2	7	6	3	10	5	4	1	2	1	2	3	56	8.5
Other myopathies	-	2	-	1	2	5	4	2	2	1	4	1	2	-	-	3	29	4.4
Hereditary disturbance in tooth structure	-	3	1	1	3	8	2	2	-	1	-	-	-	-	-	-	21	3.2
Total Diagnoses	8	36	58	57	86	79	46	45	54	55	41	20	19	6	14	32	656	100.0
Total Cases	8	34	53	54	84	76	46	43	52	55	40	20	19	6	14	32	636	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.
An individual with more than one diagnosed condition within a category is only counted once for that category.However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Counts of individuals still alive as of year-end 2001, born on or before 2000.

Table 42
Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

02 Fraser HA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	3	-	1	-	1	-	-	-	-	-	-	1	-	-	-	6	0.5
Acromegaly/gigantism	-	-	1	-	1	2	1	-	2	-	-	-	-	-	-	1	8	0.6
Pituitary dwarfism	1	5	5	2	6	5	3	3	8	3	-	-	-	2	1	-	44	3.5
Hyper/hypo & other pituitary dysfunction	-	2	3	1	2	7	7	3	-	9	3	-	1	-	1	6	45	3.6
Phenylketonuria (PKU)	-	2	9	5	4	7	7	1	5	1	2	1	1	-	-	1	46	3.7
Other dis.of amino-acid trans./metab.	1	7	3	5	6	5	6	7	3	2	5	5	3	-	-	3	61	4.8
Disorders of carbohydrate trans./metab.	-	5	5	3	3	2	5	-	3	-	1	1	-	-	-	-	28	2.2
Disorders of plasma protein metabolism	-	10	2	3	6	1	1	-	-	-	-	-	-	-	-	-	23	1.8
Disordes of mineral metabolism	3	24	6	14	16	4	3	4	4	2	5	6	2	-	1	1	95	7.6
Cystic fibrosis	2	15	23	25	17	18	14	11	6	7	8	2	3	-	-	-	151	12.0
Other and unspecified disorders of metab.	-	5	9	13	7	1	7	5	4	6	3	2	1	3	3	1	70	5.6
Hereditary hemolytic & aplastic anemias	-	24	31	20	26	16	12	3	7	6	10	6	1	-	1	-	163	13.0
Hemophilia and other coagulation defects	-	16	11	21	10	5	11	18	9	11	9	4	1	3	1	3	133	10.6
Huntington's chorea	-	-	-	-	1	-	1	1	-	5	1	1	3	5	2	5	25	2.0
Other extrapyramidal diseases	-	5	7	10	11	-	1	2	5	6	7	2	4	3	2	3	68	5.4
Anterior horn cell diseases (excl. ALS)	-	1	2	-	2	2	1	1	4	1	3	1	-	1	1	-	20	1.6
Hereditary peripheral neuropathy	-	2	7	5	9	6	4	2	6	7	4	9	-	2	4	6	73	5.8
Muscular dystrophy	-	6	3	8	7	10	9	8	8	9	10	9	8	2	2	8	107	8.5
Other myopathies	-	3	6	3	3	5	3	4	6	9	6	4	2	-	-	6	60	4.8
Hereditary disturbance in tooth structure	1	15	-	3	6	4	-	-	2	1	-	-	-	-	-	-	32	2.5
Total Diagnoses	8	150	133	142	143	101	96	73	82	85	77	53	31	21	19	44	1,258	100.0
Total Cases	7	133	119	137	135	97	96	72	81	85	76	52	31	21	19	43	1,204	

Table 43
Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

03 Vancouver Coastal HA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	1	4	0.3
Acromegaly/gigantism	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	1	4	0.3
Pituitary dwarfism	1	2	6	4	10	4	4	5	2	1	2	2	-	-	-	2	45	3.8
Hyper/hypo & other pituitary dysfunction	-	1	3	6	6	4	2	4	3	2	1	2	2	-	-	1	37	3.1
Phenylketonuria (PKU)	2	-	8	4	4	2	3	-	2	1	2	2	-	2	-	-	32	2.7
Other dis.of amino-acid trans./metab.	1	2	3	2	2	1	7	2	6	3	7	5	1	2	-	1	45	3.8
Disorders of carbohydrate trans./metab.	1	3	9	3	3	1	1	4	-	-	1	2	-	-	-	-	28	2.4
Disorders of plasma protein metabolism	1	11	2	1	4	-	-	-	-	-	-	-	-	-	-	1	20	1.7
Disordes of mineral metabolism	1	10	14	9	13	8	2	3	3	1	3	1	2	-	-	4	74	6.2
Cystic fibrosis	3	8	10	10	10	8	10	10	5	9	1	1	1	-	1	-	87	7.3
Other and unspecified disorders of metab.	-	4	8	6	7	4	3	2	3	4	2	5	2	-	-	4	54	4.6
Hereditary hemolytic & aplastic anemias	6	39	27	26	51	27	11	11	14	18	10	7	4	1	1	2	255	21.5
Hemophilia and other coagulation defects	4	9	11	16	13	3	6	13	10	16	7	13	7	1	1	1	131	11.1
Huntington's chorea	-	-	-	-	-	1	-	-	-	2	4	4	3	1	2	9	26	2.2
Other extrapyramidal diseases	2	8	5	-	5	6	2	3	3	4	5	4	4	5	3	7	66	5.6
Anterior horn cell diseases (excl. ALS)	-	-	4	-	2	1	3	3	1	1	3	-	-	-	-	-	18	1.5
Hereditary peripheral neuropathy	1	3	-	5	7	2	3	9	3	3	9	4	-	6	5	19	79	6.7
Muscular dystrophy	-	1	1	4	1	8	4	9	8	11	6	7	3	3	5	9	80	6.8
Other myopathies	-	2	2	7	3	1	3	6	10	5	6	6	1	3	-	5	60	5.1
Hereditary disturbance in tooth structure	6	7	3	5	5	2	3	1	4	1	-	-	2	-	-	1	40	3.4
Total Diagnoses	29	111	119	110	146	83	67	85	77	82	69	65	32	24	18	68	1,185	100.0
Total Cases	26	101	105	100	137	78	66	84	75	81	69	63	32	24	18	68	1,127	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.
An individual with more than one diagnosed condition within a category is only coutned once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category.

Table 44
Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

04 Vancouver Island HA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	2	0.3
Acromegaly/gigantism	-	-	-	-	1	-	1	-	1	-	-	1	-	-	-	-	4	0.6
Pituitary dwarfism	-	6	-	5	8	1	1	1	1	3	1	4	1	-	-	-	32	4.7
Hyper/hypo & other pituitary dysfunction	-	-	1	1	5	3	2	2	3	4	3	4	-	-	-	2	30	4.4
Phenylketonuria (PKU)	-	1	4	5	8	2	3	2	2	2	3	1	1	1	1	1	37	5.4
Other dis.of amino-acid trans./metab.	-	2	2	3	2	1	-	2	3	4	3	-	2	1	1	-	26	3.8
Disorders of carbohydrate trans./metab.	-	2	7	2	2	2	2	3	1	-	-	-	2	-	-	-	23	3.3
Disorders of plasma protein metabolism	-	3	-	1	1	4	-	-	-	-	-	-	1	-	1	1	12	1.7
Disordes of mineral metabolism	-	5	6	3	6	5	8	4	6	10	2	1	1	2	-	2	61	8.9
Cystic fibrosis	-	4	13	13	9	5	7	7	9	9	3	-	-	-	-	-	79	11.5
Other and unspecified disorders of metab.	1	3	4	6	4	10	1	-	3	3	4	4	1	1	-	-	45	6.6
Hereditary hemolytic & aplastic anemias	1	2	8	5	11	7	3	3	5	1	4	2	-	-	1	-	53	7.7
Hemophilia and other coagulation defects	1	8	9	7	11	5	7	9	1	5	2	5	1	2	2	1	76	11.1
Huntington's chorea	-	-	-	1	-	-	-	1	3	4	3	3	3	3	2	-	23	3.3
Other extrapyramidal diseases	-	2	2	2	1	2	-	-	-	1	2	-	2	-	1	6	21	3.1
Anterior horn cell diseases (excl. ALS)	-	-	-	2	1	-	1	2	2	2	-	-	-	1	-	-	11	1.6
Hereditary peripheral neuropathy	-	2	2	3	4	3	1	6	4	6	3	3	1	2	1	6	47	6.8
Muscular dystrophy	-	2	-	3	3	8	6	3	5	4	4	2	6	-	3	2	51	7.4
Other myopathies	-	4	1	1	4	4	3	3	3	4	5	1	1	5	-	1	40	5.8
Hereditary disturbance in tooth structure	2	1	2	4	-	1	1	1	-	-	-	1	1	-	-	-	14	2.0
Total Diagnoses	5	47	62	67	81	63	47	49	52	62	42	32	24	18	13	23	687	100.0
Total Cases	5	43	55	60	76	61	47	47	50	60	42	29	24	18	12	23	652	

Table 45
Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

05 Northern HA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.3
Acromegaly/gigantism	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pituitary dwarfism	-	2	4	1	3	4	1	1	-	2	-	-	-	-	1	-	19	5.7
Hyper/hypo & other pituitary dysfunction	-	-	1	2	-	2	-	-	1	3	-	-	-	-	-	-	9	2.7
Phenylketonuria (PKU)	2	1	3	-	1	2	-	1	-	1	-	-	-	-	-	-	11	3.3
Other dis.of amino-acid trans./metab.	-	-	2	2	1	1	-	-	2	1	1	1	-	-	-	-	11	3.3
Disorders of carbohydrate trans./metab.	-	1	3	4	-	-	1	1	-	-	-	-	-	-	-	-	10	3.0
Disorders of plasma protein metabolism	-	2	1	-	-	-	-	1	-	-	1	-	-	-	-	-	5	1.5
Disordes of mineral metabolism	-	4	-	2	9	5	2	-	-	1	1	-	1	-	-	1	26	7.8
Cystic fibrosis	2	2	7	7	8	7	5	11	-	-	-	1	-	-	-	-	50	14.9
Other and unspecified disorders of metab.	-	2	3	-	-	1	1	1	-	2	-	1	-	-	-	1	12	3.6
Hereditary hemolytic & aplastic anemias	2	6	2	4	5	9	5	4	2	6	-	2	-	1	-	-	48	14.3
Hemophilia and other coagulation defects	-	5	5	4	4	4	2	5	6	2	1	2	1	-	1	-	42	12.5
Huntington's chorea	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	3	0.9
Other extrapyramidal diseases	1	1	-	3	-	1	-	1	1	2	-	-	-	1	-	-	11	3.3
Anterior horn cell diseases (excl. ALS)	-	-	-	-	2	3	1	-	-	1	-	1	-	-	-	-	8	2.4
Hereditary peripheral neuropathy	-	-	-	2	3	2	1	1	1	1	-	3	-	-	-	2	16	4.8
Muscular dystrophy	-	-	1	4	3	3	2	3	2	3	2	1	-	-	-	-	24	7.2
Other myopathies	-	4	-	1	1	2	1	2	1	1	-	-	-	-	-	-	13	3.9
Hereditary disturbance in tooth structure	1	2	4	2	1	4	1	-	1	-	-	-	-	-	-	-	16	4.8
Total Diagnoses	8	32	36	38	41	50	23	32	17	26	6	13	3	2	2	6	335	100.0
Total Cases	7	30	35	38	37	48	23	31	16	26	6	13	3	2	2	6	323	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.
An individual with more than one diagnosed condition within a category is only coutned once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category.

Table 46

Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

11 East Kootenay HSDA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acromegaly/gigantism	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pituitary dwarfism	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	1.6
Hyper/hypo & other pituitary dysfunction	-	-	-	-	2	1	-	1	-	-	-	-	1	1	-	-	6	9.5
Phenylketonuria (PKU)	-	1	-	1	1	1	-	1	-	-	-	-	-	-	-	-	5	7.9
Other dis.of amino-acid trans./metab.	-	-	-	1	1	-	1	1	-	-	-	-	-	-	-	-	4	6.3
Disorders of carbohydrate trans./metab.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disorders of plasma protein metabolism	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disordes of mineral metabolism	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	2	3.2
Cystic fibrosis	-	-	-	1	1	3	-	1	-	-	-	1	-	-	-	-	7	11.1
Other and unspecified disorders of metab.	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1.6
Hereditary hemolytic & aplastic anemias	-	1	-	-	-	1	1	1	-	2	-	-	-	-	-	1	7	11.1
Hemophilia and other coagulation defects	-	-	-	2	3	1	-	1	2	-	1	-	1	-	-	-	11	17.5
Huntington's chorea	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1.6
Other extrapyramidal diseases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	3.2
Anterior horn cell diseases (excl. ALS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hereditary peripheral neuropathy	-	-	-	-	2	1	1	-	-	-	1	2	-	-	1	1	9	14.3
Muscular dystrophy	-	-	1	-	-	-	1	-	2	-	-	-	-	-	-	-	4	6.3
Other myopathies	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1.6
Hereditary disturbance in tooth structure	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	2	3.2
Total Diagnoses	-	2	1	5	10	9	4	7	5	4	4	3	3	1	2	3	63	100.0
Total Cases	-	2	1	5	10	9	4	6	5	4	4	3	3	1	2	3	62	

Table 47

Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

12 Kootenay Boundary HSDA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acromegaly/gigantism	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	0.9
Pituitary dwarfism	-	1	-	-	1	-	-	-	-	-	-	1	1	-	-	-	4	3.7
Hyper/hypo & other pituitary dysfunction	-	-	-	-	2	1	-	-	1	-	1	-	-	-	-	-	5	4.7
Phenylketonuria (PKU)	-	-	2	3	-	-	-	1	1	-	-	1	-	-	-	-	8	7.5
Other dis.of amino-acid trans./metab.	-	-	-	1	3	-	-	-	-	1	-	1	-	-	2	-	8	7.5
Disorders of carbohydrate trans./metab.	-	-	-	2	-	-	1	-	-	1	-	-	-	-	-	-	4	3.7
Disorders of plasma protein metabolism	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	2	1.9
Disordes of mineral metabolism	-	1	2	-	2	-	-	-	-	-	-	-	-	-	-	-	5	4.7
Cystic fibrosis	-	-	-	-	3	3	1	1	2	-	-	-	-	-	-	-	10	9.3
Other and unspecified disorders of metab.	-	-	-	-	-	-	-	1	1	2	-	-	-	-	-	-	4	3.7
Hereditary hemolytic & aplastic anemias	-	-	-	-	1	-	1	1	-	-	3	-	-	-	-	-	6	5.6
Hemophilia and other coagulation defects	-	1	-	1	1	2	2	-	2	5	2	-	-	-	-	1	17	15.9
Huntington's chorea	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	2	1.9
Other extrapyramidal diseases	-	2	-	-	-	-	-	-	1	-	1	-	1	-	1	-	6	5.6
Anterior horn cell diseases (excl. ALS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hereditary peripheral neuropathy	-	-	1	-	-	1	-	1	-	-	-	-	1	1	-	1	6	5.6
Muscular dystrophy	-	-	1	1	-	2	1	1	4	1	1	1	-	-	1	1	15	14.0
Other myopathies	-	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	3	2.8
Hereditary disturbance in tooth structure	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.9
Total Diagnoses	-	7	7	8	15	9	6	6	13	10	9	4	4	1	5	3	107	100.0
Total Cases	-	7	5	8	14	9	6	6	13	10	9	4	4	1	5	3	104	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.
An individual with more than one diagnosed condition within a category is only coutned once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category.

Table 48
Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

13 Okanagan HSDA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acromegaly/gigantism	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	0.8
Pituitary dwarfism	1	2	2	2	3	2	1	2	1	-	-	-	-	1	-	1	18	7.6
Hyper/hypo & other pituitary dysfunction	-	1	-	2	2	-	-	-	-	2	1	-	-	-	-	1	9	3.8
Phenylketonuria (PKU)	-	1	-	1	1	1	1	-	-	2	-	-	1	-	-	-	8	3.4
Other dis.of amino-acid trans./metab.	-	1	1	2	1	-	1	-	1	2	1	1	-	-	1	2	14	5.9
Disorders of carbohydrate trans./metab.	2	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	4	1.7
Disorders of plasma protein metabolism	-	1	1	1	1	-	-	-	-	-	1	-	-	-	-	-	5	2.1
Disordes of mineral metabolism	-	-	1	2	3	1	-	-	1	4	1	-	-	-	1	2	16	6.7
Cystic fibrosis	-	3	7	9	7	3	5	2	1	2	1	1	-	-	-	-	41	17.2
Other and unspecified disorders of metab.	-	1	2	1	2	1	-	1	-	-	1	-	-	-	2	1	12	5.0
Hereditary hemolytic & aplastic anemias	-	-	4	3	2	2	1	-	1	3	1	-	-	-	1	-	18	7.6
Hemophilia and other coagulation defects	-	4	5	3	3	2	1	3	1	3	1	-	-	-	-	-	26	10.9
Huntington's chorea	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other extrapyramidal diseases	-	1	1	2	2	-	1	-	1	1	-	-	-	-	-	1	10	4.2
Anterior horn cell diseases (excl. ALS)	-	-	1	-	-	1	-	-	-	1	-	-	-	-	-	-	3	1.3
Hereditary peripheral neuropathy	-	-	-	-	1	-	1	1	1	2	1	-	-	-	1	4	12	5.0
Muscular dystrophy	-	-	5	-	-	2	1	-	-	1	1	-	1	1	-	1	13	5.5
Other myopathies	-	1	-	-	-	4	3	1	2	-	2	-	1	-	-	3	17	7.1
Hereditary disturbance in tooth structure	-	2	-	-	1	5	1	1	-	-	-	-	-	-	-	-	10	4.2
Total Diagnoses	4	19	30	28	29	24	17	12	10	23	13	2	3	2	6	16	238	100.0
Total Cases	4	18	27	26	28	22	17	11	9	23	12	2	3	2	6	16	226	

Table 49
Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

14 Thompson Cariboo HSDA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.4
Acromegaly/gigantism	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	2	0.8
Pituitary dwarfism	-	-	-	1	2	3	2	-	2	-	1	2	-	-	-	-	13	5.2
Hyper/hypo & other pituitary dysfunction	-	-	-	-	-	3	1	-	1	-	-	-	-	1	-	2	8	3.2
Phenylketonuria (PKU)	1	-	1	1	3	1	-	-	3	2	-	-	-	-	-	-	12	4.8
Other dis.of amino-acid trans./metab.	-	1	1	-	2	2	-	-	-	1	-	-	-	-	-	-	7	2.8
Disorders of carbohydrate trans./metab.	-	-	1	2	2	2	-	-	1	-	-	-	-	-	-	-	8	3.2
Disorders of plasma protein metabolism	1	1	2	-	-	-	-	-	-	-	-	-	1	-	-	-	5	2.0
Disordes of mineral metabolism	1	3	2	1	1	2	-	2	1	1	2	1	-	-	-	3	20	8.1
Cystic fibrosis	-	1	2	1	8	8	1	5	5	2	2	1	1	-	-	-	37	14.9
Other and unspecified disorders of metab.	-	-	-	1	2	1	3	1	1	-	-	1	-	-	-	1	11	4.4
Hereditary hemolytic & aplastic anemias	-	1	2	1	3	4	1	1	3	-	-	-	-	-	-	1	17	6.9
Hemophilia and other coagulation defects	-	1	4	3	2	3	3	3	3	6	3	4	3	1	-	-	39	15.7
Huntington's chorea	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	2	0.8
Other extrapyramidal diseases	1	-	2	2	-	2	-	-	-	2	2	-	1	-	-	1	13	5.2
Anterior horn cell diseases (excl. ALS)	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	2	0.8
Hereditary peripheral neuropathy	-	-	-	-	2	-	3	4	1	-	1	-	-	-	-	-	11	4.4
Muscular dystrophy	-	-	1	1	2	3	3	2	4	3	2	-	1	-	1	1	24	9.7
Other myopathies	-	-	-	1	1	1	1	1	-	-	2	1	-	-	-	-	8	3.2
Hereditary disturbance in tooth structure	-	-	1	1	2	2	1	1	-	-	-	-	-	-	-	-	8	3.2
Total Diagnoses	4	8	20	16	32	37	19	20	26	18	15	11	9	2	1	10	248	100.0
Total Cases	4	7	20	15	32	36	19	20	25	18	15	11	9	2	1	10	244	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.
An individual with more than one diagnosed condition within a category is only coutned once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category.

Table 50
Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

21 Fraser Valley HSDA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	0.5
Acromegaly/gigantism	-	-	1	-	-	1	1	-	-	-	-	-	-	-	-	-	3	1.5
Pituitary dwarfism	1	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	5	2.5
Hyper/hypo & other pituitary dysfunction	-	-	-	1	-	2	2	-	-	1	-	-	-	-	-	1	7	3.4
Phenylketonuria (PKU)	-	-	2	2	1	-	-	-	1	1	-	-	1	-	-	-	8	3.9
Other dis.of amino-acid trans./metab.	1	-	1	-	2	1	1	-	-	-	1	-	-	-	-	-	7	3.4
Disorders of carbohydrate trans./metab.	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1.0
Disorders of plasma protein metabolism	-	4	-	2	2	1	-	-	-	-	-	-	-	-	-	-	9	4.4
Disordes of mineral metabolism	-	2	-	-	2	-	2	-	2	-	1	-	1	-	-	-	10	4.9
Cystic fibrosis	-	1	6	7	4	6	-	-	2	-	-	-	-	-	-	-	26	12.7
Other and unspecified disorders of metab.	-	2	1	2	2	-	2	-	-	1	2	1	-	-	-	-	13	6.4
Hereditary hemolytic & aplastic anemias	-	-	6	2	5	2	1	-	1	1	1	-	-	-	-	-	19	9.3
Hemophilia and other coagulation defects	-	3	4	1	1	1	1	3	1	1	2	-	-	2	-	1	21	10.3
Huntington's chorea	-	-	-	-	1	-	-	-	-	1	-	-	1	1	-	-	4	2.0
Other extrapyramidal diseases	-	1	3	3	-	-	-	1	1	-	-	1	-	-	-	-	10	4.9
Anterior horn cell diseases (excl. ALS)	-	-	2	-	-	2	-	-	2	1	-	-	-	-	-	-	7	3.4
Hereditary peripheral neuropathy	-	-	2	-	1	3	-	1	-	2	-	-	-	-	3	3	15	7.4
Muscular dystrophy	-	1	2	3	-	4	2	2	2	1	3	2	-	1	-	1	24	11.8
Other myopathies	-	-	1	1	1	-	1	1	1	1	-	-	1	-	-	1	9	4.4
Hereditary disturbance in tooth structure	-	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-	4	2.0
Total Diagnoses	2	17	32	24	25	24	13	8	15	11	10	4	5	4	3	7	204	100.0
Total Cases	2	17	27	23	24	24	13	8	15	11	10	4	5	4	3	7	197	

Table 51
Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

22 Simon Fraser HSDA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	0.4
Acromegaly/gigantism	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	1	4	0.8
Pituitary dwarfism	-	3	1	1	2	1	2	-	4	3	-	-	-	2	-	-	19	3.6
Hyper/hypo & other pituitary dysfunction	-	-	2	-	2	-	3	1	-	4	2	-	1	-	-	3	18	3.4
Phenylketonuria (PKU)	-	2	4	3	1	3	7	1	2	-	2	1	-	-	-	1	27	5.1
Other dis.of amino-acid trans./metab.	-	5	1	4	3	1	1	3	1	-	4	3	3	-	-	-	29	5.5
Disorders of carbohydrate trans./metab.	-	1	3	1	1	1	4	-	1	-	1	-	-	-	-	-	13	2.5
Disorders of plasma protein metabolism	-	3	-	-	3	-	1	-	-	-	-	-	-	-	-	-	7	1.3
Disordes of mineral metabolism	2	16	2	9	6	1	1	1	1	-	3	3	-	-	-	1	46	8.7
Cystic fibrosis	1	2	5	6	7	4	6	5	2	2	4	-	1	-	-	-	45	8.5
Other and unspecified disorders of metab.	-	2	4	5	-	-	1	1	1	4	1	-	-	1	3	1	24	4.6
Hereditary hemolytic & aplastic anemias	-	17	14	8	8	5	9	2	2	4	6	3	1	-	1	-	80	15.2
Hemophilia and other coagulation defects	-	8	4	10	2	1	3	5	6	6	5	4	1	-	-	-	55	10.4
Huntington's chorea	-	-	-	-	-	-	-	1	-	4	1	-	1	4	1	4	16	3.0
Other extrapyramidal diseases	-	3	1	4	4	-	-	1	2	3	3	1	2	3	-	2	29	5.5
Anterior horn cell diseases (excl. ALS)	-	1	-	-	2	-	-	1	1	-	2	-	-	1	-	-	8	1.5
Hereditary peripheral neuropathy	-	2	3	2	4	1	3	-	2	2	1	7	-	-	1	2	30	5.7
Muscular dystrophy	-	1	-	1	3	3	7	3	2	5	5	3	4	-	2	4	43	8.2
Other myopathies	-	-	1	-	2	2	1	3	2	3	5	-	-	-	-	4	23	4.4
Hereditary disturbance in tooth structure	-	4	-	1	2	1	-	-	1	-	-	-	-	-	-	-	9	1.7
Total Diagnoses	3	71	45	56	52	25	49	28	32	40	45	25	14	11	8	23	527	100.0
Total Cases	2	63	41	53	49	23	49	28	31	40	44	25	14	11	8	22	503	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.
An individual with more than one diagnosed condition within a category is only coutned once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category.

Table 52
Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

23 South Fraser HSDA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	3	0.6
Acromegaly/gigantism	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	0.2
Pituitary dwarfism	-	2	4	1	2	4	1	3	2	-	-	-	-	-	1	-	20	3.8
Hyper/hypo & other pituitary dysfunction	-	2	1	-	-	5	2	2	-	4	1	-	-	-	1	2	20	3.8
Phenylketonuria (PKU)	-	-	3	-	2	4	-	-	2	-	-	-	-	-	-	-	11	2.1
Other dis.of amino-acid trans./metab.	-	2	1	1	1	3	4	4	2	2	-	2	-	-	-	3	25	4.7
Disorders of carbohydrate trans./metab.	-	3	1	2	2	1	1	-	2	-	-	1	-	-	-	-	13	2.5
Disorders of plasma protein metabolism	-	3	2	1	1	-	-	-	-	-	-	-	-	-	-	-	7	1.3
Disordes of mineral metabolism	1	6	4	5	8	3	-	3	1	2	1	3	1	-	1	-	39	7.4
Cystic fibrosis	1	12	12	12	6	8	8	6	2	5	4	2	2	-	-	-	80	15.2
Other and unspecified disorders of metab.	-	1	4	6	5	1	4	4	3	1	-	1	1	2	-	-	33	6.3
Hereditary hemolytic & aplastic anemias	-	7	11	10	13	9	2	1	4	1	3	3	-	-	-	-	64	12.1
Hemophilia and other coagulation defects	-	5	3	10	7	3	7	10	2	4	2	-	-	1	1	2	57	10.8
Huntington's chorea	-	-	-	-	-	-	1	-	-	-	-	1	1	-	1	1	5	0.9
Other extrapyramidal diseases	-	1	3	3	7	-	1	-	2	3	4	-	2	-	2	1	29	5.5
Anterior horn cell diseases (excl. ALS)	-	-	-	-	-	-	1	-	1	-	1	1	-	-	1	-	5	0.9
Hereditary peripheral neuropathy	-	-	2	3	4	2	1	1	4	3	3	2	-	2	-	1	28	5.3
Muscular dystrophy	-	4	1	4	4	3	-	3	4	3	2	4	4	1	-	3	40	7.6
Other myopathies	-	3	4	2	-	3	1	-	3	5	1	4	1	-	-	1	28	5.3
Hereditary disturbance in tooth structure	1	9	-	2	3	2	-	-	1	1	-	-	-	-	-	-	19	3.6
Total Diagnoses	3	62	56	62	66	52	34	37	35	34	22	24	12	6	8	14	527	100.0
Total Cases	3	53	51	61	62	50	34	36	35	34	22	23	12	6	8	14	504	

Table 53
Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

31 Richmond HSDA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acromegaly/gigantism	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.7
Pituitary dwarfism	-	-	1	1	2	-	-	3	-	-	-	-	-	-	-	-	7	4.8
Hyper/hypo & other pituitary dysfunction	-	-	1	2	2	-	-	1	1	-	-	1	-	-	-	-	8	5.4
Phenylketonuria (PKU)	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-	-	3	2.0
Other dis.of amino-acid trans./metab.	-	1	-	-	1	-	4	-	-	-	-	-	-	-	-	-	6	4.1
Disorders of carbohydrate trans./metab.	-	-	2	1	-	-	1	1	-	-	-	1	-	-	-	-	6	4.1
Disorders of plasma protein metabolism	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	0.7
Disordes of mineral metabolism	-	3	3	2	1	-	-	-	2	-	-	-	-	-	-	1	12	8.2
Cystic fibrosis	-	1	1	2	-	1	1	-	-	1	-	-	-	-	1	-	8	5.4
Other and unspecified disorders of metab.	-	-	-	1	1	1	-	1	-	-	-	1	-	-	-	1	6	4.1
Hereditary hemolytic & aplastic anemias	-	2	3	9	6	9	1	1	1	1	1	1	-	-	-	-	35	23.8
Hemophilia and other coagulation defects	-	-	-	3	-	-	-	2	1	2	1	-	-	-	-	-	9	6.1
Huntington's chorea	-	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	3	2.0
Other extrapyramidal diseases	-	-	1	-	1	2	-	-	-	-	-	1	1	2	-	1	9	6.1
Anterior horn cell diseases (excl. ALS)	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	0.7
Hereditary peripheral neuropathy	-	-	-	-	3	-	-	3	1	-	1	1	-	-	-	2	11	7.5
Muscular dystrophy	-	-	-	2	1	-	-	1	3	1	-	2	-	-	-	2	12	8.2
Other myopathies	-	-	-	1	-	-	1	-	1	1	-	-	-	-	-	1	5	3.4
Hereditary disturbance in tooth structure	-	1	2	-	1	-	-	-	-	-	-	-	-	-	-	-	4	2.7
Total Diagnoses	-	8	16	24	20	14	8	14	10	7	4	10	1	2	1	8	147	100.0
Total Cases	-	8	16	21	19	13	8	14	10	7	4	10	1	2	1	8	142	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.
An individual with more than one diagnosed condition within a category is only coutned once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category.

Table 54

Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

32 Vancouver HSDA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	3	0.4
Acromegaly/gigantism	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1	3	0.4
Pituitary dwarfism	1	2	4	3	5	2	2	-	1	-	1	2	-	-	-	1	24	3.1
Hyper/hypo & other pituitary dysfunction	-	1	2	1	4	3	2	3	1	2	1	1	-	-	-	1	22	2.8
Phenylketonuria (PKU)	-	-	5	2	2	1	2	-	2	-	1	2	-	2	-	-	19	2.4
Other dis.of amino-acid trans./metab.	1	1	-	1	-	-	3	1	2	1	5	5	1	1	-	1	23	3.0
Disorders of carbohydrate trans./metab.	1	3	6	-	2	-	-	1	-	-	1	1	-	-	-	-	15	1.9
Disorders of plasma protein metabolism	1	7	2	1	3	-	-	-	-	-	-	-	-	-	-	1	15	1.9
Disordes of mineral metabolism	1	6	8	5	9	5	2	1	-	1	3	1	2	-	-	2	46	5.9
Cystic fibrosis	2	3	6	4	8	5	4	7	3	6	1	-	1	-	-	-	50	6.4
Other and unspecified disorders of metab.	-	3	6	3	6	2	3	1	1	3	2	4	1	-	-	3	38	4.9
Hereditary hemolytic & aplastic anemias	6	36	20	15	34	14	8	7	8	16	6	6	3	1	-	2	182	23.4
Hemophilia and other coagulation defects	4	8	10	11	9	2	3	10	9	11	4	9	5	1	1	1	98	12.6
Huntington's chorea	-	-	-	-	-	-	-	-	-	2	1	2	3	-	2	6	16	2.1
Other extrapyramidal diseases	2	7	2	-	4	3	2	3	2	3	4	3	2	3	3	6	49	6.3
Anterior horn cell diseases (excl. ALS)	-	-	3	-	2	1	1	2	1	1	3	-	-	-	-	-	14	1.8
Hereditary peripheral neuropathy	1	1	-	2	3	2	3	6	2	1	7	3	-	6	5	14	56	7.2
Muscular dystrophy	-	1	1	1	-	3	2	4	4	4	5	4	3	2	2	5	41	5.3
Other myopathies	-	1	1	2	1	1	2	4	6	2	4	4	1	2	-	4	35	4.5
Hereditary disturbance in tooth structure	5	6	1	4	3	1	2	-	3	1	-	-	2	-	-	-	28	3.6
Total Diagnoses	25	87	79	57	95	45	41	50	45	54	49	47	24	18	13	48	777	100.0
Total Cases	23	78	68	51	87	42	40	49	44	54	49	45	24	18	13	48	733	

Table 55

Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

33 North Shore/Coast Garibaldi HSDA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.4
Acromegaly/gigantism	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pituitary dwarfism	-	-	1	-	3	2	2	2	1	1	1	-	-	-	-	1	14	5.4
Hyper/hypo & other pituitary dysfunction	-	-	-	3	-	1	-	-	1	-	-	-	2	-	-	-	7	2.7
Phenylketonuria (PKU)	2	-	2	2	2	1	1	-	-	-	-	-	-	-	-	-	10	3.8
Other dis.of amino-acid trans./metab.	-	-	3	1	1	1	-	1	4	2	2	-	-	1	-	-	16	6.1
Disorders of carbohydrate trans./metab.	-	-	1	2	1	1	-	2	-	-	-	-	-	-	-	-	7	2.7
Disorders of plasma protein metabolism	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1.5
Disordes of mineral metabolism	-	1	3	2	3	3	-	2	1	-	-	-	-	-	-	1	16	6.1
Cystic fibrosis	1	4	3	4	2	2	5	3	2	2	-	1	-	-	-	-	29	11.1
Other and unspecified disorders of metab.	-	1	2	2	-	1	-	-	2	1	-	-	1	-	-	-	10	3.8
Hereditary hemolytic & aplastic anemias	-	1	4	2	11	4	2	3	5	1	3	-	1	-	1	-	38	14.6
Hemophilia and other coagulation defects	-	1	1	2	4	1	3	1	-	3	2	4	2	-	-	-	24	9.2
Huntington's chorea	-	-	-	-	-	-	-	-	-	-	3	-	-	1	-	3	7	2.7
Other extrapyramidal diseases	-	1	2	-	-	1	-	-	1	1	1	-	1	-	-	-	8	3.1
Anterior horn cell diseases (excl. ALS)	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	3	1.1
Hereditary peripheral neuropathy	-	2	-	3	1	-	-	-	-	2	1	-	-	-	-	3	12	4.6
Muscular dystrophy	-	-	-	1	-	5	2	4	1	6	1	1	-	1	3	2	27	10.3
Other myopathies	-	1	1	4	2	-	-	2	3	2	2	2	-	1	-	-	20	7.7
Hereditary disturbance in tooth structure	1	-	-	1	1	1	1	1	1	-	-	-	-	-	-	1	8	3.1
Total Diagnoses	4	16	24	29	31	24	18	21	22	21	16	8	7	4	4	12	261	100.0
Total Cases	3	15	21	28	31	23	18	21	21	20	16	8	7	4	4	12	252	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.
An individual with more than one diagnosed condition within a category is only coutned once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category.

Table 56

Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

41 South Vancouver Island HSDA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	0.3
Acromegaly/gigantism	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pituitary dwarfism	-	4	-	2	5	1	1	-	-	3	-	3	-	-	-	-	19	5.4
Hyper/hypo & other pituitary dysfunction	-	-	1	1	3	1	1	-	-	3	2	1	-	-	-	1	14	4.0
Phenylketonuria (PKU)	-	1	1	2	2	1	-	2	-	1	1	1	1	1	1	1	16	4.5
Other dis.of amino-acid trans./metab.	-	1	1	1	1	-	-	-	1	3	1	-	1	1	1	-	12	3.4
Disorders of carbohydrate trans./metab.	-	2	1	1	-	1	1	-	-	-	-	-	1	-	-	-	7	2.0
Disorders of plasma protein metabolism	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	0.6
Disordes of mineral metabolism	-	2	4	1	4	2	6	2	6	5	-	1	-	2	-	1	36	10.2
Cystic fibrosis	-	1	5	6	7	2	6	5	3	6	3	-	-	-	-	-	44	12.5
Other and unspecified disorders of metab.	1	-	2	4	-	3	1	-	2	1	2	-	1	1	-	-	18	5.1
Hereditary hemolytic & aplastic anemias	1	-	2	2	4	5	1	2	3	1	4	1	-	-	-	-	26	7.4
Hemophilia and other coagulation defects	1	4	3	4	4	5	4	8	1	3	-	-	1	1	-	1	40	11.3
Huntington's chorea	-	-	-	-	-	-	-	1	3	1	1	2	1	3	-	-	12	3.4
Other extrapyramidal diseases	-	1	-	1	1	1	-	-	-	-	2	-	-	-	1	5	12	3.4
Anterior horn cell diseases (excl. ALS)	-	-	-	2	-	-	-	2	-	-	-	-	-	1	-	-	5	1.4
Hereditary peripheral neuropathy	-	2	2	2	4	2	-	5	2	5	1	3	1	2	-	3	34	9.6
Muscular dystrophy	-	1	-	1	-	6	5	1	1	3	3	2	3	-	2	1	29	8.2
Other myopathies	-	2	-	-	2	1	1	3	1	3	2	-	1	4	-	1	21	5.9
Hereditary disturbance in tooth structure	1	-	1	1	-	-	1	-	-	-	-	1	-	-	-	-	5	1.4
Total Diagnoses	4	22	23	31	37	31	28	31	23	38	22	15	11	16	5	16	353	100.0
Total Cases	4	21	20	29	34	29	28	30	23	37	22	14	11	16	5	16	339	

Table 57

Counts of Individuals Living with "Other" Genetic Conditions by Age Group
British Columbia, As of Year-End 2000

42 Central Vancouver Island HSDA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acromegaly/gigantism	-	-	-	-	-	-	1	-	1	-	-	1	-	-	-	-	3	1.2
Pituitary dwarfism	-	2	-	1	2	-	-	1	1	-	1	1	1	-	-	-	10	3.8
Hyper/hypo & other pituitary dysfunction	-	-	-	-	-	1	1	2	3	1	1	3	-	-	-	1	13	5.0
Phenylketonuria (PKU)	-	-	3	1	6	1	3	-	2	1	2	-	-	-	-	-	19	7.3
Other dis.of amino-acid trans./metab	-	1	1	2	-	1	-	1	1	1	2	-	1	-	-	-	11	4.2
Disorders of carbohydrate trans./metab.	-	-	6	-	2	1	1	3	1	-	-	-	1	-	-	-	15	5.8
Disorders of plasma protein metabolism	-	2	-	1	1	4	-	-	-	-	-	-	1	-	1	-	10	3.8
Disordes of mineral metabolism	-	2	1	-	2	3	-	2	-	3	1	-	-	-	-	1	15	5.8
Cystic fibrosis	-	3	7	3	1	2	-	2	4	2	-	-	-	-	-	-	24	9.2
Other and unspecified disorders of metab.	-	2	1	2	3	3	-	-	1	-	1	4	-	-	-	-	17	6.5
Hereditary hemolytic & aplastic anemias	-	2	5	1	5	2	-	-	2	-	-	1	-	-	-	-	18	6.9
Hemophilia and other coagulation defects	-	3	4	3	4	-	3	1	-	2	2	5	-	1	2	-	30	11.5
Huntington's chorea	-	-	-	-	-	-	-	-	-	2	1	1	2	-	2	-	8	3.1
Other extrapyramidal diseases	-	-	2	1	-	1	-	-	-	1	-	-	2	-	-	1	8	3.1
Anterior horn cell diseases (excl. ALS)	-	-	-	-	1	-	1	-	2	2	-	-	-	-	-	-	6	2.3
Hereditary peripheral neuropathy	-	-	-	1	-	1	1	1	2	1	1	-	-	-	1	3	12	4.6
Muscular dystrophy	-	-	-	-	3	1	1	2	4	1	1	-	3	-	1	1	18	6.9
Other myopathies	-	2	1	1	2	1	2	-	2	1	3	1	-	1	-	-	17	6.5
Hereditary disturbance in tooth structure	1	1	1	1	-	1	-	-	-	-	-	-	1	-	-	-	6	2.3
Total Diagnoses	1	20	32	18	32	23	14	15	26	18	16	17	12	2	7	7	260	100.0
Total Cases	1	17	28	16	32	23	14	14	25	17	16	15	12	2	6	7	245	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.
An individual with more than one diagnosed condition within a category is only coutned once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category.

Table 58

Counts of Individuals Living with "Other" Genetic Conditions by Age Group British Columbia, As of Year-End 2000

43 North Vancouver Island HSDA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1.4
Acromegaly/gigantism	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	1.4
Pituitary dwarfism	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	3	4.1
Hyper/hypo & other pituitary dysfunction	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	3	4.1
Phenylketonuria (PKU)	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2	2.7
Other dis.of amino-acid trans./metab.	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	-	3	4.1
Disorders of carbohydrate trans./metab.	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1.4
Disorders of plasma protein metabolism	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disordes of mineral metabolism	-	1	1	2	-	-	2	-	-	2	1	-	1	-	-	-	10	13.5
Cystic fibrosis	-	-	1	4	1	1	1	-	2	1	-	-	-	-	-	-	11	14.9
Other and unspecified disorders of metab.	-	1	1	-	1	4	-	-	-	2	1	-	-	-	-	-	10	13.5
Hereditary hemolytic & aplastic anemias	-	-	1	2	2	-	2	1	-	-	-	-	-	-	1	-	9	12.2
Hemophilia and other coagulation defects	-	1	2	-	3	-	-	-	-	-	-	-	-	-	-	-	6	8.1
Huntington's chorea	-	-	-	1	-	-	-	-	-	1	1	-	-	-	-	-	3	4.1
Other extrapyramidal diseases	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1.4
Anterior horn cell diseases (excl. ALS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hereditary peripheral neuropathy	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1.4
Muscular dystrophy	-	1	-	2	-	1	-	-	-	-	-	-	-	-	-	-	4	5.4
Other myopathies	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2	2.7
Hereditary disturbance in tooth structure	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-	3	4.1
Total Diagnoses	-	5	7	18	12	9	5	3	3	6	4	-	1	-	1	-	74	100.0
Total Cases	-	5	7	15	10	9	5	3	2	6	4	-	1	-	1	-	68	

Table 59

Counts of Individuals Living with "Other" Genetic Conditions by Age Group British Columbia, As of Year-End 2000

51 Northwest HSDA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acromegaly/gigantism	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pituitary dwarfism	-	2	1	1	-	2	-	-	-	-	-	-	-	-	-	-	6	5.5
Hyper/hypo & other pituitary dysfunction	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	2	1.8
Phenylketonuria (PKU)	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	3	2.7
Other dis.of amino-acid trans./metab.	-	-	2	-	-	1	-	-	1	-	-	1	-	-	-	-	5	4.5
Disorders of carbohydrate trans./metab.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disorders of plasma protein metabolism	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disordes of mineral metabolism	-	1	-	-	3	2	-	-	-	-	-	-	1	-	-	-	7	6.4
Cystic fibrosis	-	2	4	2	3	-	3	4	-	-	-	-	-	-	-	-	18	16.4
Other and unspecified disorders of metab.	-	-	2	-	-	-	1	1	-	2	-	-	-	-	-	-	6	5.5
Hereditary hemolytic & aplastic anemias	-	2	2	2	1	6	2	1	-	-	-	-	-	-	-	-	16	14.5
Hemophilia and other coagulation defects	-	2	1	-	3	-	-	3	5	2	1	-	-	-	-	-	17	15.5
Huntington's chorea	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other extrapyramidal diseases	1	1	-	1	-	1	-	1	-	1	-	-	-	1	-	-	7	6.4
Anterior horn cell diseases (excl. ALS)	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	0.9
Hereditary peripheral neuropathy	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	3	2.7
Muscular dystrophy	-	-	-	1	1	2	-	1	1	1	-	-	-	-	-	-	7	6.4
Other myopathies	-	3	-	-	1	1	-	1	1	-	-	-	-	-	-	-	7	6.4
Hereditary disturbance in tooth structure	-	-	2	-	-	2	1	-	-	-	-	-	-	-	-	-	5	4.5
Total Diagnoses	1	14	15	8	14	19	7	12	9	7	1	1	1	1	-	-	110	100.0
Total Cases	1	13	15	8	13	18	7	12	9	7	1	1	1	1	-	-	107	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.
An individual with more than one diagnosed condition within a category is only coutned once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category.

Table 60

Counts of Individuals Living with "Other" Genetic Conditions by Age Group British Columbia, As of Year-End 2000

52 Northern Interior HSDA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acromegaly/gigantism	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pituitary dwarfism	-	-	3	-	2	2	1	-	-	1	-	-	-	-	1	-	10	6.8
Hyper/hypo & other pituitary dysfunction	-	-	1	1	-	1	-	-	1	1	-	-	-	-	-	-	5	3.4
Phenylketonuria (PKU)	-	-	2	-	-	2	-	1	-	-	-	-	-	-	-	-	5	3.4
Other dis of amino-acid trans./metab	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	0.7
Disorders of carbohydrate trans./metab.	-	1	3	2	-	-	-	-	-	-	-	-	-	-	-	-	6	4.1
Disorders of plasma protein metabolism	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	0.7
Disordes of mineral metabolism	-	3	-	2	6	2	2	-	-	1	1	-	-	-	-	-	17	11.6
Cystic fibrosis	2	-	2	4	4	6	-	2	-	-	-	-	-	-	-	-	20	13.6
Other and unspecified disorders of metab.	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	1	3	2.0
Hereditary hemolytic & aplastic anemias	1	3	-	2	4	1	1	3	1	1	-	1	-	-	-	-	18	12.2
Hemophilia and other coagulation defects	-	3	3	3	-	2	-	2	1	-	-	1	-	-	1	-	16	10.9
Huntington's chorea	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	3	2.0
Other extrapyramidal diseases	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	2	1.4
Anterior horn cell diseases (excl. ALS)	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	2	1.4
Hereditary peripheral neuropathy	-	-	-	2	1	1	1	1	-	-	-	3	-	-	-	1	10	6.8
Muscular dystrophy	-	-	1	3	2	1	1	2	1	2	1	-	-	-	-	-	14	9.5
Other myopathies	-	1	-	1	-	1	1	1	-	1	-	-	-	-	-	-	6	4.1
Hereditary disturbance in tooth structure	1	2	2	-	-	2	-	-	1	-	-	-	-	-	-	-	8	5.4
Total Diagnoses	4	14	18	21	19	22	7	12	5	9	3	7	1	-	2	3	147	100.0
Total Cases	4	14	17	21	18	22	7	12	4	9	3	7	1	-	2	3	144	

Table 61

Counts of Individuals Living with "Other" Genetic Conditions by Age Group British Columbia, As of Year-End 2000

53 Northeast HSDA

Conditions	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	% Total
Congenital syphilis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1.3
Acromegaly/gigantism	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pituitary dwarfism	-	-	-	-	1	-	-	1	-	1	-	-	-	-	-	-	3	3.8
Hyper/hypo & other pituitary dysfunction	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	2	2.6
Phenylketonuria (PKU)	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	3	3.8
Other dis of amino-acid trans./metab.	-	-	-	2	1	-	-	-	1	1	-	-	-	-	-	-	5	6.4
Disorders of carbohydrate trans./metab.	-	-	-	2	-	-	1	1	-	-	-	-	-	-	-	-	4	5.1
Disorders of plasma protein metabolism	-	1	1	-	-	-	-	1	-	-	1	-	-	-	-	-	4	5.1
Disordes of mineral metabolism	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	2	2.6
Cystic fibrosis	-	-	1	1	1	1	2	5	-	-	-	1	-	-	-	-	12	15.4
Other and unspecified disorders of metab.	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	3	3.8
Hereditary hemolytic & aplastic anemias	1	1	-	-	-	2	2	-	1	5	-	1	-	1	-	-	14	17.9
Hemophilia and other coagulation defects	-	-	1	1	1	2	2	-	-	-	-	1	1	-	-	-	9	11.5
Huntington's chorea	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other extrapyramidal diseases	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	2	2.6
Anterior horn cell diseases (excl. ALS)	-	-	-	-	2	1	1	-	-	-	-	1	-	-	-	-	5	6.4
Hereditary peripheral neuropathy	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	1	3	3.8
Muscular dystrophy	-	-	-	-	-	-	1	-	-	-	1	1	-	-	-	-	3	3.8
Other myopathies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hereditary disturbance in tooth structure	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	3	3.8
Total Diagnoses	3	4	3	9	8	9	9	8	3	10	2	5	1	1	-	3	78	100.0
Total Cases	2	3	3	9	6	8	9	7	3	10	2	5	1	1	-	3	72	

Note Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category.
An individual with more than one diagnosed condition within a category is only coutned once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category.

Section 5: Selected Chronic Disabilities and Handicapping Conditions

Introduction

This section of the report provides information on the prevalence of selected chronic disabilities and handicapping conditions in children as of year-end, 2000. These conditions, which generally manifest in childhood, are now only reported to the HSR for individuals aged 19 years old or younger. In contrast to the conditions shown in the previous sections of this report, many of the disabilities presented here do not have a defined genetic basis; they are either descriptive of a physical handicap or a childhood disease. It should be noted, however, that some of the conditions presented in this section do result from congenital anomalies or genetic conditions. This means, for example, that counts for mental retardation will include individuals with Down's or other syndromes where mental retardation is a factor. Similarly, the categories of vision impairment include cases with congenital anomalies of the eye that cause functional disability, as well as visual impairments caused by cancer, infection, or injury.

The selected chronic disabilities and handicapping conditions include some that affect vision, hearing, speech, or mobility, as well as broader conditions such as cerebral degenerations. The amount of impairment can range from very slight to extremely severe for any of these handicapping conditions. The conditions include:

- retinoblastoma (a tumour in a specific part of the eye)
- hemangioma and lymphangioma (specific types of tumours)
- neurofibromatosis and Von Recklinghausen' s disease (marked by the formation of soft tumours over the entire body)
- diabetes mellitus
- disorders of adrenal glands
- Tourette's syndrome
- hyperkinetic syndrome
- stuttering and specific developmental delays (including dyslexia and specific difficulties in spelling or arithmetic)
- mental retardation
- childhood cerebral degenerations and acquired hydrocephalus (accumulation of fluid in the brain)
- infantile cerebral palsy
- hemiplegia
- quadriplegia
- paraplegia
- other paralytic syndromes
- epilepsy
- retrolental fibroplasia (a condition characterized by growth of tissue behind the lens due to excessively high concentrations of oxygen in the care of premature infants)
- blindness, strabismus, and other visual impairments
- abnormal auditory perception and deafness
- juvenile rheumatoid arthritis
- disorders of muscle, ligament and fascia
- osteochondropathies (diseases involving conversion of cartilage into bone or the abnormal formation of bone)
- other acquired deformities of limbs (including traumatic amputations)
- curvature of the spine

The tables in this section provide prevalence counts for selected chronic disabilities and handicapping conditions in children (age less than 20 years old) as of year-end, 2000, as reported to the HSR. Table 62 provides counts by age group and gender at the provincial level. Tables providing the same information for each HA and HSDA follow. Counts could not be provided by local health area because of the small numbers of chronic disabilities and handicapping conditions in children at the HSDA level. Geographic assignment was based on the address from the last contact with an HSR reporting source; individuals who had died were excluded. If an individual had more than one chronic disability or handicapping conditions within a category, they were only counted once for that category. However, individuals with chronic disabilities and handicapping conditions in more than one category were counted in each category.

The reader is reminded that tables in this section reflect the information reported to the HSR and should not be interpreted as complete provincial or regional statistics. The Health Status Registry needs to receive registrations from sources providing health services to children to get information on the prevalence of disabilities in the province. Chronic disabilities and handicapping conditions that are not brought to the attention of reporting sources will have poor ascertainment (serious under-reporting). The reader can refer to Table 1 for a list of sources and the number of diagnoses they reported to the HSR over the last five years.

The reader is also reminded that variability in the level of reporting will contribute to differences at the sub provincial level. Additional caveats affecting the data can be found in the Guide to Data Interpretation in the General Information section at the beginning of this report. Appendix I provides ICD codes for chronic disabilities and handicapping conditions shown in this section of the report.

In 2002 the Health Status Registry began to collect data regarding diagnosed Autism Spectrum Disorder cases in the Province. The British Columbia Vital Statistics Agency is in the process of developing reporting sources throughout British Columbia that will provide the required data.

Information Box

Autism Spectrum Disorder

Autism Spectrum Disorder (ASD) is a brain disorder that affects communication and social interaction. Autistic children avoid eye contact; they may flap their hands, or run in circles. If they speak, their speech may consist of phrases or sentences repeated over and over, or they may echo questions put to them. Characteristics may include repetitive and ritualistic behaviours, excessive fears, self-injury such as biting or head banging, aggression, insensitivity to pain, temper tantrums, sleeping disturbances, and eating disturbances (National Institute of Child Health and Human Development website at www.nidcd.nih.gov/health/pubs_vsl/autism.htm).

ASD is often not diagnosed before school age, although some signs are usually seen by the age of three. Individuals with Autism Spectrum Disorder have a normal life span, but they may require lifelong care and supervision.

ASD was not a registrable condition with the Health Status Registry until 2002; and the HSR had fewer than a dozen cases registered at year-end 2000.

Note: Information on Autism Spectrum Disorder could not be provided because of the small number of cases registered with the HSR.

Highlights

There were 9,988 children (5,493 males and 4,315 females) with one or more of the selected chronic disabilities or handicapping conditions living in British Columbia at year-end, 2000. These children had a total of 14,015 diagnoses.

The largest numbers of children with these disabilities were between 15 and 19 years of age and two thirds (66.0%) were older than age nine. The small number of infants (less than one year of age) with the selected chronic disabilities and handicapping conditions (1.8% of the reported cases) reflects the tendency for symptoms and diagnosis of many of these conditions to be delayed until later in childhood.

Several of the chronic disabilities and handicapping conditions appear to be gender specific. About three-quarters of children with hyperkinetic syndrome (77.0%) and with osteochondropathies (78.0%), and four fifths of the children with Tourette's (83.0%) were boys; while nearly three-quarters of the children with curvature of the spine (73.1%) were girls.

Epilepsy was the handicapping condition most frequently reported to the HSR among children living in the province (2,725 diagnoses). Vancouver Coastal HA and Fraser Health Authorities had 988 and 838 children (respectively) with epilepsy. The highest prevalence among health service delivery areas was in 32 Vancouver (687 cases), followed by 23 South Fraser (389 cases) and 22 Simon Fraser (298 cases).

Stuttering and specific developmental delays were the second most frequently reported group of chronic disabilities and handicapping conditions, with 2,154 cases. Diagnoses for developmental delays do not include children with mental retardation. Vancouver Coastal and Fraser Health Authorities had 604 and 591 children (respectively) with stuttering and specific developmental delays. The highest prevalence among health service delivery areas was in 32 Vancouver (382 cases), followed by 23 South Fraser (271), 41 South Vancouver Island (269), and 22 Simon Fraser (223).

Blindness and visual impairments other than retrolental fibroplasia, with 2,028 diagnoses, were the third most frequent group of chronic disabilities and handicapping conditions reported to the HSR. Fraser and Vancouver Coastal Health Authorities had 599 and 505 children with these handicaps. The highest prevalence of children with visual impairments among health service delivery areas was in 32 Vancouver (313), 23 South Fraser (249), 22 Simon Fraser (227), and 41 South Vancouver Island (222).

Mental retardation was the fourth most frequently reported disability, with 1,558 children. Fraser and Vancouver Coastal Health Authorities had 450 and 416 children with mental retardation. The highest prevalence of children with mental retardation among health service delivery areas was in 32 Vancouver (265) and 23 South Fraser (198).

Infantile cerebral palsy is one of the most crippling diseases of childhood. The most likely etiology is cerebral anoxia and brain trauma during birth. With 1,112 children reported to the HSR, cerebral palsy was the fifth most frequently reported chronic disability. Fraser HA had 330 children with cerebral palsy; Vancouver Coastal had 269 and Vancouver Island HA had 210. The highest prevalence of children with cerebral palsy among health service delivery areas was in 32 Vancouver (163 cases), 23 South Fraser (145), and 41 South Vancouver Island (114).

Table 62

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
Provincial Total

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	6	7	5	6	24	0.17
	F	1	-	6	2	6	15	0.11
	T	1	6	13	7	12	39	0.28
Hemangioma and lymphangiona	M	14	60	54	36	34	198	1.41
	F	25	65	43	28	41	202	1.44
	T	42	129	98	64	75	408	2.91
Neurofibromatosis/ von Recklinghausen's	M	-	3	7	10	12	32	0.23
	F	-	6	13	14	17	50	0.36
	T	-	9	25	31	35	100	0.71
Diabetes mellitus	M	1	19	34	103	149	306	2.18
	F	-	13	47	91	130	281	2.00
	T	1	33	81	194	279	588	4.20
Disorders of adrenal glands	M	1	3	15	13	9	41	0.29
	F	-	9	14	9	12	44	0.31
	T	1	12	29	22	21	85	0.61
Tourette's syndrome	M	-	-	7	30	41	78	0.56
	F	-	-	-	5	9	14	0.10
	T	-	-	7	36	51	94	0.67
Hyperkinetic syndrome	M	-	1	16	128	150	295	2.10
	F	-	-	6	31	44	81	0.58
	T	-	1	23	162	197	383	2.73
Stuttering and specific developmental delays	M	2	118	268	426	486	1,300	9.28
	F	1	92	186	249	218	746	5.32
	T	3	225	506	709	711	2,154	15.37
Mental retardation	M	40	112	181	205	298	836	5.97
	F	34	102	145	169	241	691	4.93
	T	80	225	330	378	545	1,558	11.12
Childhood cerebral degenerations and acquired hydrocephalus	M	6	70	60	51	68	255	1.82
	F	-	49	35	50	57	191	1.36
	T	6	120	95	101	125	447	3.19
Infantile cerebral palsy	M	-	37	127	194	237	595	4.25
	F	-	32	98	181	204	515	3.67
	T	-	71	225	375	441	1,112	7.93
Hemiplegia	M	-	2	18	18	46	84	0.60
	F	-	-	13	25	33	71	0.51
	T	-	2	31	43	80	156	1.11
Quadriplegia	M	-	-	5	11	15	31	0.22
	F	-	1	2	13	13	29	0.21
	T	-	1	7	24	28	60	0.43
Paraplegia	M	-	1	6	9	17	33	0.24
	F	-	-	3	4	10	17	0.12
	T	-	1	9	13	27	50	0.36
Other paralytic syndromes	M	-	4	16	38	41	99	0.71
	F	-	1	24	31	64	120	0.86
	T	-	5	40	69	105	219	1.56
Epilepsy	M	18	236	261	388	560	1,463	10.44
	F	24	202	204	368	455	1,253	8.94
	T	42	444	466	756	1,017	2,725	19.44
Retrolental fibroplasia	M	8	39	20	28	38	133	0.95
	F	3	39	12	37	36	127	0.91
	T	11	78	32	65	74	260	1.86
All other visual impairments/ blindness	M	13	112	161	294	512	1,092	7.79
	F	11	100	131	261	411	914	6.52
	T	24	213	295	559	937	2,028	14.47
Abnormal auditory perception and deafness	M	1	27	101	115	133	377	2.69
	F	1	25	70	94	131	321	2.29
	T	2	55	174	214	265	710	5.07
Rheumatoid arthritis (juvenile)	M	-	-	5	18	47	70	0.50
	F	-	2	5	38	60	105	0.75
	T	-	2	10	56	107	175	1.25
Disorders of muscle, ligament and fascia	M	-	3	3	8	27	41	0.29
	F	-	1	2	8	17	28	0.20
	T	-	4	5	16	44	69	0.49
Osteochondropathies	M	-	3	19	41	61	124	0.88
	F	-	2	8	16	9	35	0.25
	T	-	5	27	57	70	159	1.13
Other acquired deformities of limbs	M	1	11	23	42	82	159	1.13
	F	1	6	22	31	57	117	0.83
	T	2	18	45	73	139	277	1.98
Curvature of spine	M	-	2	6	4	30	42	0.30
	F	-	2	8	20	84	114	0.81
	T	-	4	14	24	114	156	1.11
Total Diagnoses	**M**	105	869	1,420	2,215	3,100	7,709	55.01
	F	101	749	1,097	1,776	2,360	6,083	43.40
	T	215	1,663	2,587	4,049	5,501	14,015	100.0
Total Cases	**M**	88	689	1,035	1,560	2,121	5,493	
	F	84	594	796	1,207	1,634	4,315	
	T	181	1,317	1,897	2,814	3,779	9,988	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 63

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
01 Interior Health Authority

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	-	-	-	1	1	0.05
	F	-	-	1	-	-	1	0.05
	T	-	-	1	-	1	2	0.11
Hemangioma and lymphangiona	M	2	12	10	9	6	39	2.11
	F	9	12	9	3	5	38	2.06
	T	11	24	20	12	11	78	4.22
Neurofibromatosis/ von Recklinghausen's	M	-	-	1	-	1	2	0.11
	F	-	-	-	1	5	6	0.32
	T	-	-	1	2	8	11	0.60
Diabetes mellitus	M	-	1	4	9	10	24	1.30
	F	-	5	5	4	17	31	1.68
	T	-	6	9	13	27	55	2.98
Disorders of adrenal glands	M	-	1	3	4	3	11	0.60
	F	-	1	2	1	4	8	0.43
	T	-	2	5	5	7	19	1.03
Tourette's syndrome	M	-	-	1	5	10	16	0.87
	F	-	-	-	-	-	-	-
	T	-	-	1	6	10	17	0.92
Hyperkinetic syndrome	M	-	-	2	14	23	39	2.11
	F	-	-	1	4	7	12	0.65
	T	-	-	3	18	30	51	2.76
Stuttering and specific developmental delays	M	-	21	29	45	64	159	8.61
	F	-	6	15	26	28	75	4.06
	T	-	28	53	77	93	251	13.59
Mental retardation	M	6	17	28	34	49	134	7.26
	F	4	18	20	26	43	111	6.01
	T	10	36	48	63	93	250	13.54
Childhood cerebral degenerations and acquired hydrocephalus	M	1	11	11	5	11	39	2.11
	F	-	9	1	9	12	31	1.68
	T	1	20	12	14	23	70	3.79
Infantile cerebral palsy	M	-	5	18	24	42	89	4.82
	F	-	1	7	25	47	80	4.33
	T	-	6	25	49	89	169	9.15
Hemiplegia	M	-	-	-	4	5	9	0.49
	F	-	-	4	2	6	12	0.65
	T	-	-	4	6	11	21	1.14
Quadriplegia	M	-	-	1	2	2	5	0.27
	F	-	-	-	2	5	7	0.38
	T	-	-	1	4	7	12	0.65
Paraplegia	M	-	-	1	3	3	7	0.38
	F	-	-	-	1	2	3	0.16
	T	-	-	1	4	5	10	0.54
Other paralytic syndromes	M	-	1	2	4	7	14	0.76
	F	-	-	3	7	12	22	1.19
	T	-	1	5	11	19	36	1.95
Epilepsy	M	7	37	28	23	65	160	8.66
	F	2	26	22	30	59	139	7.53
	T	9	63	50	53	124	299	16.19
Retrolental fibroplasia	M	-	-	2	3	7	12	0.65
	F	-	3	2	1	5	11	0.60
	T	-	3	4	4	12	23	1.25
All other visual impairments/ blindness	M	-	4	16	53	83	156	8.45
	F	-	7	23	23	85	138	7.47
	T	-	11	39	76	168	294	15.92
Abnormal auditory perception and deafness	M	-	2	3	12	20	37	2.00
	F	-	3	4	12	20	39	2.11
	T	-	5	8	25	40	78	4.22
Rheumatoid arthritis (juvenile)	M	-	-	2	1	2	5	0.27
	F	-	1	2	3	13	19	1.03
	T	-	1	4	4	15	24	1.30
Disorders of muscle, ligament and fascia	M	-	-	-	1	7	8	0.43
	F	-	-	-	1	3	4	0.22
	T	-	-	-	2	10	12	0.65
Osteochondropathies	M	-	-	-	1	9	10	0.54
	F	-	-	2	1	-	3	0.16
	T	-	-	2	2	9	13	0.70
Other acquired deformities of limbs	M	-	2	3	2	11	18	0.97
	F	-	-	2	3	9	14	0.76
	T	-	2	5	5	20	32	1.73
Curvature of spine	M	-	-	2	1	5	8	0.43
	F	-	1	-	3	8	12	0.65
	T	-	1	2	4	13	20	1.08
Total Diagnoses	**M**	16	114	167	259	446	1,002	54.25
	F	15	93	125	188	395	816	44.18
	T	31	209	303	459	845	1,847	100.0
Total Cases	**M**	15	102	121	182	314	734	
	F	13	80	100	135	273	601	
	T	28	184	232	327	590	1,361	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 64

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
02 Fraser Health Authority

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	4	4	1	2	11	0.26
	F	-	-	2	-	-	2	0.05
	T	-	4	6	1	2	13	0.31
Hemangioma and lymphangiona	M	1	18	15	8	7	49	1.17
	F	4	21	15	5	9	54	1.29
	T	5	39	30	13	16	103	2.46
Neurofibromatosis/ von Recklinghausen's	M	-	1	3	4	3	11	0.26
	F	-	2	3	5	4	14	0.33
	T	-	3	9	11	9	32	0.76
Diabetes mellitus	M	1	9	15	30	58	113	2.69
	F	-	2	20	38	51	111	2.65
	T	1	12	35	68	109	225	5.37
Disorders of adrenal glands	M	-	1	5	4	5	15	0.36
	F	-	7	6	2	4	19	0.45
	T	-	8	11	6	9	34	0.81
Tourette's syndrome	M	-	-	1	5	14	20	0.48
	F	-	-	-	1	4	5	0.12
	T	-	-	1	6	19	26	0.62
Hyperkinetic syndrome	M	-	-	2	35	54	91	2.17
	F	-	-	-	8	17	25	0.60
	T	-	-	3	43	73	119	2.84
Stuttering and specific developmental delays	M	-	40	77	122	103	342	8.16
	F	-	30	61	62	53	206	4.91
	T	-	77	159	196	159	591	14.09
Mental retardation	M	14	37	66	54	69	240	5.72
	F	3	33	48	51	65	200	4.77
	T	17	75	116	106	136	450	10.73
Childhood cerebral degenerations and acquired hydrocephalus	M	2	17	24	18	29	90	2.15
	F	-	12	14	21	27	74	1.76
	T	2	30	38	39	56	165	3.94
Infantile cerebral palsy	M	-	13	42	69	59	183	4.36
	F	-	12	37	56	42	147	3.51
	T	-	25	79	125	101	330	7.87
Hemiplegia	M	-	1	10	5	13	29	0.69
	F	-	-	3	10	11	24	0.57
	T	-	1	13	15	24	53	1.26
Quadriplegia	M	-	-	1	3	5	9	0.21
	F	-	-	1	3	3	7	0.17
	T	-	-	2	6	8	16	0.38
Paraplegia	M	-	-	1	1	4	6	0.14
	F	-	-	-	2	4	6	0.14
	T	-	-	1	3	8	12	0.29
Other paralytic syndromes	M	-	-	3	11	9	23	0.55
	F	-	1	9	9	20	39	0.93
	T	-	1	12	20	29	62	1.48
Epilepsy	M	8	78	78	125	149	438	10.45
	F	10	59	80	107	140	396	9.44
	T	18	140	159	232	289	838	19.99
Retrolental fibroplasia	M	3	11	8	9	8	39	0.93
	F	-	4	6	13	12	35	0.83
	T	3	15	14	22	20	74	1.76
All other visual impairments/ blindness	M	6	36	49	91	129	311	7.42
	F	5	20	41	84	134	284	6.77
	T	11	57	90	175	266	599	14.29
Abnormal auditory perception and deafness	M	1	5	18	24	38	86	2.05
	F	-	6	17	18	26	67	1.60
	T	1	13	36	44	64	158	3.77
Rheumatoid arthritis (juvenile)	M	-	-	-	5	14	19	0.45
	F	-	-	1	15	21	37	0.88
	T	-	-	1	20	35	56	1.34
Disorders of muscle, ligament and fascia	M	-	2	1	3	6	12	0.29
	F	-	1	-	2	2	5	0.12
	T	-	3	1	5	8	17	0.41
Osteochondropathies	M	-	-	8	17	24	49	1.17
	F	-	1	2	8	6	17	0.41
	T	-	1	10	25	30	66	1.57
Other acquired deformities of limbs	M	-	6	10	11	24	51	1.22
	F	1	-	11	15	18	45	1.07
	T	1	6	21	26	42	96	2.29
Curvature of spine	M	-	2	-	2	7	11	0.26
	F	-	1	5	8	33	47	1.12
	T	-	3	5	10	40	58	1.38
Total Diagnoses	**M**	36	281	441	657	833	2,248	53.61
	F	23	212	382	543	706	1,866	44.50
	T	59	513	852	1,217	1,552	4,193	100.0
Total Cases	**M**	29	220	324	438	577	1,588	
	F	21	174	262	352	490	1,299	
	T	50	407	612	804	1,076	2,949	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 65

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
03 Vancouver Coastal Health Authority

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	-	1	2	1	4	0.10
	F	-	-	2	-	3	5	0.13
	T	-	-	3	2	4	9	0.23
Hemangioma and lymphangiona	M	7	20	16	8	9	60	1.56
	F	9	19	10	12	12	62	1.61
	T	19	42	26	20	21	128	3.32
Neurofibromatosis/ von Recklinghausen's	M	-	1	1	2	4	8	0.21
	F	-	1	2	2	3	8	0.21
	T	-	2	4	6	8	20	0.52
Diabetes mellitus	M	-	8	5	39	42	94	2.44
	F	-	3	16	24	27	70	1.81
	T	-	11	21	63	69	164	4.25
Disorders of adrenal glands	M	1	1	4	2	1	9	0.23
	F	-	1	3	2	2	8	0.21
	T	1	2	7	4	3	17	0.44
Tourette's syndrome	M	-	-	-	10	8	18	0.47
	F	-	-	-	1	4	5	0.13
	T	-	-	-	11	12	23	0.60
Hyperkinetic syndrome	M	-	1	4	20	38	63	1.63
	F	-	-	-	6	15	21	0.54
	T	-	1	4	27	53	85	2.20
Stuttering and specific developmental delays	M	-	38	68	102	150	358	9.28
	F	1	29	53	73	59	215	5.57
	T	1	72	138	182	211	604	15.66
Mental retardation	M	14	23	33	56	90	216	5.60
	F	13	29	36	45	63	186	4.82
	T	33	55	71	101	156	416	10.78
Childhood cerebral degenerations and acquired hydrocephalus	M	2	18	12	13	13	58	1.50
	F	-	14	7	12	4	37	0.96
	T	2	32	19	25	17	95	2.46
Infantile cerebral palsy	M	-	10	33	43	60	146	3.78
	F	-	7	21	45	49	122	3.16
	T	-	18	54	88	109	269	6.97
Hemiplegia	M	-	1	2	4	12	19	0.49
	F	-	-	4	7	6	17	0.44
	T	-	1	6	11	18	36	0.93
Quadriplegia	M	-	-	1	4	6	11	0.29
	F	-	1	-	3	1	5	0.13
	T	-	1	1	7	7	16	0.41
Paraplegia	M	-	1	2	3	4	10	0.26
	F	-	-	2	1	2	5	0.13
	T	-	1	4	4	6	15	0.39
Other paralytic syndromes	M	-	2	5	11	12	30	0.78
	F	-	-	6	9	18	33	0.86
	T	-	2	11	20	30	63	1.63
Epilepsy	M	1	68	109	159	204	541	14.02
	F	8	71	63	141	161	444	11.51
	T	9	141	172	300	366	988	25.61
Retrolental fibroplasia	M	1	11	2	10	11	35	0.91
	F	3	13	3	15	9	43	1.11
	T	4	24	5	25	20	78	2.02
All other visual impairments/ blindness	M	2	30	48	69	133	282	7.31
	F	6	32	20	73	78	209	5.42
	T	8	62	70	145	220	505	13.09
Abnormal auditory perception and deafness	M	-	4	12	16	25	57	1.48
	F	1	3	10	10	31	55	1.43
	T	1	7	23	28	56	115	2.98
Rheumatoid arthritis (juvenile)	M	-	-	-	-	20	20	0.52
	F	-	-	-	9	10	19	0.49
	T	-	-	-	9	30	39	1.01
Disorders of muscle, ligament and fascia	M	-	-	-	3	1	4	0.10
	F	-	-	1	5	5	11	0.29
	T	-	-	1	8	6	15	0.39
Osteochondropathies	M	-	2	5	16	15	38	0.98
	F	-	-	2	5	2	9	0.23
	T	-	2	7	21	17	47	1.22
Other acquired deformities of limbs	M	1	2	4	17	25	49	1.27
	F	-	4	5	9	7	25	0.65
	T	1	7	9	26	32	75	1.94
Curvature of spine	M	-	-	1	1	11	13	0.34
	F	-	-	-	3	20	23	0.60
	T	-	-	1	4	31	36	0.93
Total Diagnoses	**M**	29	241	368	610	895	2,143	55.55
	F	41	227	266	512	591	1,637	42.43
	T	79	483	657	1,137	1,502	3,858	100.0
Total Cases	**M**	26	189	258	421	606	1,500	
	F	31	180	198	348	421	1,178	
	T	66	382	478	781	1,036	2,743	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 66

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
04 Vancouver Island Health Authority

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	2	1	2	1	6	0.23
	F	1	-	1	-	3	5	0.19
	T	1	2	2	2	4	11	0.42
Hemangioma and lymphangiona	M	1	7	8	6	6	28	1.08
	F	3	8	6	5	6	28	1.08
	T	4	15	14	11	12	56	2.15
Neurofibromatosis/ von Recklinghausen's	M	-	1	1	2	2	6	0.23
	F	-	3	7	4	3	17	0.65
	T	-	4	9	7	5	25	0.96
Diabetes mellitus	M	-	1	7	15	23	46	1.77
	F	-	1	4	21	26	52	2.00
	T	-	2	11	36	49	98	3.77
Disorders of adrenal glands	M	-	-	1	2	-	3	0.12
	F	-	-	2	4	-	6	0.23
	T	-	-	3	6	-	9	0.35
Tourette's syndrome	M	-	-	3	6	6	15	0.58
	F	-	-	-	2	1	3	0.12
	T	-	-	3	8	7	18	0.69
Hyperkinetic syndrome	M	-	-	7	44	24	75	2.88
	F	-	-	4	10	4	18	0.69
	T	-	-	11	54	28	93	3.58
Stuttering and specific developmental delays	M	1	14	46	106	91	258	9.92
	F	-	11	37	49	55	152	5.84
	T	1	25	84	159	146	415	15.96
Mental retardation	M	4	23	38	38	55	158	6.07
	F	10	16	23	27	40	116	4.46
	T	14	39	61	65	95	274	10.53
Childhood cerebral degenerations and acquired hydrocephalus	M	1	19	9	10	5	44	1.69
	F	-	8	7	6	8	29	1.11
	T	1	27	16	16	13	73	2.81
Infantile cerebral palsy	M	-	6	19	43	43	111	4.27
	F	-	6	25	28	40	99	3.81
	T	-	12	44	71	83	210	8.07
Hemiplegia	M	-	-	4	3	8	15	0.58
	F	-	-	1	3	8	12	0.46
	T	-	-	5	6	16	27	1.04
Quadriplegia	M	-	-	1	1	2	4	0.15
	F	-	-	-	2	2	4	0.15
	T	-	-	1	3	4	8	0.31
Paraplegia	M	-	-	1	1	5	7	0.27
	F	-	-	-	-	1	1	0.04
	T	-	-	1	1	6	8	0.31
Other paralytic syndromes	M	-	-	6	5	7	18	0.69
	F	-	-	4	3	10	17	0.65
	T	-	-	10	8	17	35	1.35
Epilepsy	M	2	26	29	46	84	187	7.19
	F	2	28	29	55	68	182	7.00
	T	4	54	58	101	152	369	14.19
Retrolental fibroplasia	M	4	16	7	3	6	36	1.38
	F	-	12	1	5	5	23	0.88
	T	4	28	8	8	11	59	2.27
All other visual impairments/ blindness	M	4	32	33	56	90	215	8.27
	F	-	26	31	47	68	172	6.61
	T	4	58	64	104	158	388	14.92
Abnormal auditory perception and deafness	M	-	15	63	51	36	165	6.34
	F	-	10	32	41	41	124	4.77
	T	-	25	95	92	77	289	11.11
Rheumatoid arthritis (juvenile)	M	-	-	2	9	5	16	0.62
	F	-	-	1	6	11	18	0.69
	T	-	-	3	15	16	34	1.31
Disorders of muscle, ligament and fascia	M	-	-	-	1	7	8	0.31
	F	-	-	1	-	6	7	0.27
	T	-	-	1	1	13	15	0.58
Osteochondropathies	M	-	1	4	4	9	18	0.69
	F	-	1	2	1	-	4	0.15
	T	-	2	6	5	9	22	0.85
Other acquired deformities of limbs	M	-	-	2	7	10	19	0.73
	F	-	1	4	2	16	23	0.88
	T	-	1	6	9	26	42	1.61
Curvature of spine	M	-	-	1	-	4	5	0.19
	F	-	-	3	4	11	18	0.69
	T	-	-	4	4	15	23	0.88
Total Diagnoses	**M**	17	163	293	461	529	1,463	56.25
	F	16	131	225	325	433	1,130	43.44
	T	33	294	520	792	962	2,601	100.0
Total Cases	**M**	12	119	219	343	359	1,052	
	F	14	97	160	237	289	797	
	T	26	216	381	586	648	1,857	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 67

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
05 Northern Health Authority

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	-	1	-	1	2	0.14
	F	-	-	-	1	-	1	0.07
	T	-	-	1	1	1	3	0.21
Hemangioma and lymphangiona	M	3	3	5	5	6	22	1.52
	F	-	5	3	3	9	20	1.38
	T	3	9	8	8	15	43	2.97
Neurofibromatosis/ von Recklinghausen's	M	-	-	1	2	2	5	0.35
	F	-	-	1	2	2	5	0.35
	T	-	-	2	5	4	11	0.76
Diabetes mellitus	M	-	-	3	10	16	29	2.01
	F	-	1	2	4	9	16	1.11
	T	-	1	5	14	25	45	3.11
Disorders of adrenal glands	M	-	-	2	1	-	3	0.21
	F	-	-	1	-	2	3	0.21
	T	-	-	3	1	2	6	0.41
Tourette's syndrome	M	-	-	2	4	3	9	0.62
	F	-	-	-	1	-	1	0.07
	T	-	-	2	5	3	10	0.69
Hyperkinetic syndrome	M	-	-	1	15	11	27	1.87
	F	-	-	1	2	1	4	0.28
	T	-	-	2	19	13	34	2.35
Stuttering and specific developmental delays	M	1	5	48	49	78	181	12.52
	F	-	15	19	38	22	94	6.50
	T	1	22	71	92	101	287	19.85
Mental retardation	M	2	9	15	22	33	81	5.60
	F	4	5	18	20	28	75	5.19
	T	6	16	33	42	61	158	10.93
Childhood cerebral degenerations and acquired hydrocephalus	M	-	3	4	4	10	21	1.45
	F	-	6	6	2	5	19	1.31
	T	-	9	10	6	15	40	2.77
Infantile cerebral palsy	M	-	3	15	13	33	64	4.43
	F	-	5	8	26	26	65	4.50
	T	-	9	23	39	59	130	8.99
Hemiplegia	M	-	-	2	2	7	11	0.76
	F	-	-	1	2	2	5	0.35
	T	-	-	3	4	10	17	1.18
Quadriplegia	M	-	-	1	1	-	2	0.14
	F	-	-	1	3	2	6	0.41
	T	-	-	2	4	2	8	0.55
Paraplegia	M	-	-	1	-	1	2	0.14
	F	-	-	1	-	-	1	0.07
	T	-	-	2	-	1	3	0.21
Other paralytic syndromes	M	-	1	-	6	6	13	0.90
	F	-	-	2	3	3	8	0.55
	T	-	1	2	9	9	21	1.45
Epilepsy	M	-	25	16	35	56	132	9.13
	F	2	16	10	34	24	86	5.95
	T	2	41	26	69	81	219	15.15
Retrolental fibroplasia	M	-	-	1	3	6	10	0.69
	F	-	7	-	3	5	15	1.04
	T	-	7	1	6	11	25	1.73
All other visual impairments/ blindness	M	1	6	14	20	77	118	8.16
	F	-	14	16	33	46	109	7.54
	T	1	20	31	53	125	230	15.91
Abnormal auditory perception and deafness	M	-	1	5	12	14	32	2.21
	F	-	2	7	12	12	33	2.28
	T	-	4	12	24	27	67	4.63
Rheumatoid arthritis (juvenile)	M	-	-	1	3	6	10	0.69
	F	-	1	1	5	5	12	0.83
	T	-	1	2	8	11	22	1.52
Disorders of muscle, ligament and fascia	M	-	1	-	-	6	7	0.48
	F	-	-	-	-	1	1	0.07
	T	-	1	-	-	7	8	0.55
Osteochondropathies	M	-	-	2	3	4	9	0.62
	F	-	-	-	1	1	2	0.14
	T	-	-	2	4	5	11	0.76
Other acquired deformities of limbs	M	-	1	4	4	11	20	1.38
	F	-	1	-	2	7	10	0.69
	T	-	2	4	6	18	30	2.07
Curvature of spine	M	-	-	2	-	3	5	0.35
	F	-	-	-	2	11	13	0.90
	T	-	-	2	2	14	18	1.24
Total Diagnoses	**M**	7	58	146	214	390	815	56.36
	F	6	78	98	199	223	604	41.77
	T	13	143	249	421	620	1,446	100.0
Total Cases	**M**	6	48	109	168	260	591	
	F	5	57	75	127	154	418	
	T	11	110	189	300	416	1,026	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 68

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
11 East Kootenay Health Service Delivery Area

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	-	-	-	1	1	0.42
	F	-	-	-	-	-	-	-
	T	-	-	-	-	1	1	0.42
Hemiangioma and lymphangiona	M	-	3	-	-	1	4	1.69
	F	1	1	1	-	-	3	1.27
	T	1	4	1	-	1	7	2.97
Neurofibromatosis/ von Recklinghausen's	M	-	-	-	-	1	1	0.42
	F	-	-	-	1	1	2	0.85
	T	-	-	-	1	2	3	1.27
Diabetes mellitus	M	-	-	1	1	2	4	1.69
	F	-	-	2	-	3	5	2.12
	T	-	-	3	1	5	9	3.81
Disorders of adrenal glands	M	-	-	-	1	-	1	0.42
	F	-	-	-	-	1	1	0.42
	T	-	-	-	1	1	2	0.85
Tourette's syndrome	M	-	-	-	-	1	1	0.42
	F	-	-	-	-	-	-	-
	T	-	-	-	-	1	1	0.42
Hyperkinetic syndrome	M	-	-	-	2	2	4	1.69
	F	-	-	-	1	-	1	0.42
	T	-	-	-	3	2	5	2.12
Stuttering and specific developmental delays	M	-	-	2	6	7	15	6.36
	F	-	-	1	2	3	6	2.54
	T	-	-	3	9	10	22	9.32
Mental retardation	M	1	3	3	4	9	20	8.47
	F	-	4	-	2	6	12	5.08
	T	1	7	3	6	15	32	13.56
Childhood cerebral degenerations and acquired hydrocephalus	M	-	-	-	1	1	2	0.85
	F	-	-	-	-	1	1	0.42
	T	-	-	-	1	2	3	1.27
Infantile cerebral palsy	M	-	1	2	3	10	16	6.78
	F	-	-	-	6	11	17	7.20
	T	-	1	2	9	21	33	13.98
Hemiplegia	M	-	-	-	-	1	1	0.42
	F	-	-	-	-	1	1	0.42
	T	-	-	-	-	2	2	0.85
Quadriplegia	M	-	-	-	-	1	1	0.42
	F	-	-	-	-	-	-	-
	T	-	-	-	-	1	1	0.42
Paraplegia	M	-	-	-	-	1	1	0.42
	F	-	-	-	-	-	-	-
	T	-	-	-	-	1	1	0.42
Other paralytic syndromes	M	-	-	-	2	2	4	1.69
	F	-	-	-	1	1	2	0.85
	T	-	-	-	3	3	6	2.54
Epilepsy	M	1	1	1	3	19	25	10.59
	F	-	-	3	4	12	19	8.05
	T	1	1	4	7	31	44	18.64
Retrolental fibroplasia	M	-	-	1	-	-	1	0.42
	F	-	-	-	-	-	-	-
	T	-	-	1	-	-	1	0.42
All other visual impairments/ blindness	M	-	1	2	5	21	29	12.29
	F	-	-	1	2	7	10	4.24
	T	-	1	3	7	28	39	16.53
Abnormal auditory perception and deafness	M	-	-	1	2	2	5	2.12
	F	-	-	-	2	5	7	2.97
	T	-	-	1	4	7	12	5.08
Rheumatoid arthritis (juvenile)	M	-	-	-	-	-	-	-
	F	-	-	1	-	-	1	0.42
	T	-	-	1	-	-	1	0.42
Disorders of muscle, ligament and fascia	M	-	-	-	-	-	-	-
	F	-	-	-	1	1	2	0.85
	T	-	-	-	1	1	2	0.85
Osteochondropathies	M	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-
Other acquired deformities of limbs	M	-	1	-	-	3	4	1.69
	F	-	-	-	-	-	-	-
	T	-	1	-	-	3	4	1.69
Curvature of spine	M	-	-	-	1	1	2	0.85
	F	-	-	-	1	2	3	1.27
	T	-	-	-	2	3	5	2.12
Total Diagnoses	**M**	2	10	13	31	86	142	60.17
	F	1	5	9	23	55	93	39.41
	T	3	15	22	55	141	236	100.0
Total Cases	**M**	2	9	10	24	57	102	
	F	1	5	9	16	38	69	
	T	3	14	19	41	95	172	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 69

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
12 Kootenay Boundary Health Service Delivery Area

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-
Hemangioma and lymphangiona	M	-	1	1	1	-	3	1.24
	F	-	-	2	-	1	3	1.24
	T	-	1	3	1	1	6	2.48
Neurofibromatosis/ von Recklinghausen's	M	-	-	-	-	-	-	-
	F	-	-	-	-	2	2	0.83
	T	-	-	-	-	2	2	0.83
Diabetes mellitus	M	-	-	-	4	3	7	2.89
	F	-	-	-	1	3	4	1.65
	T	-	-	-	5	6	11	4.55
Disorders of adrenal glands	M	-	1	-	-	-	1	0.41
	F	-	-	-	-	1	1	0.41
	T	-	1	-	-	1	2	0.83
Tourette's syndrome	M	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-
Hyperkinetic syndrome	M	-	-	-	1	-	1	0.41
	F	-	-	1	-	2	3	1.24
	T	-	-	1	1	2	4	1.65
Stuttering and specific developmental delays	M	-	-	2	5	7	14	5.79
	F	-	-	2	2	6	10	4.13
	T	-	1	6	7	13	27	11.16
Mental retardation	M	1	3	5	7	5	21	8.68
	F	-	2	5	2	5	14	5.79
	T	1	5	10	10	10	36	14.88
Childhood cerebral degenerations and acquired hydrocephalus	M	-	1	1	1	1	4	1.65
	F	-	-	1	-	1	2	0.83
	T	-	1	2	1	2	6	2.48
Infantile cerebral palsy	M	-	-	4	2	4	10	4.13
	F	-	-	2	2	8	12	4.96
	T	-	-	6	4	12	22	9.09
Hemiplegia	M	-	-	-	1	1	2	0.83
	F	-	-	-	-	1	1	0.41
	T	-	-	-	1	2	3	1.24
Quadriplegia	M	-	-	-	-	-	-	-
	F	-	-	-	-	1	1	0.41
	T	-	-	-	-	1	1	0.41
Paraplegia	M	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-
Other paralytic syndromes	M	-	-	-	1	2	3	1.24
	F	-	-	-	2	5	7	2.89
	T	-	-	-	3	7	10	4.13
Epilepsy	M	-	5	4	3	4	16	6.61
	F	2	2	2	3	8	17	7.02
	T	2	7	6	6	12	33	13.64
Retrolental fibroplasia	M	-	-	-	-	-	-	-
	F	-	1	1	-	1	3	1.24
	T	-	1	1	-	1	3	1.24
All other visual impairments/ blindness	M	-	1	4	3	13	21	8.68
	F	-	3	7	1	18	29	11.98
	T	-	4	11	4	31	50	20.66
Abnormal auditory perception and deafness	M	-	-	1	1	-	2	0.83
	F	-	-	-	1	6	7	2.89
	T	-	-	1	2	6	9	3.72
Rheumatoid arthritis (juvenile)	M	-	-	-	-	-	-	-
	F	-	-	-	-	6	6	2.48
	T	-	-	-	-	6	6	2.48
Disorders of muscle, ligament and fascia	M	-	-	-	-	1	1	0.41
	F	-	-	-	-	1	1	0.41
	T	-	-	-	-	2	2	0.83
Osteochondropathies	M	-	-	-	-	1	1	0.41
	F	-	-	-	1	-	1	0.41
	T	-	-	-	1	1	2	0.83
Other acquired deformities of limbs	M	-	-	2	-	1	3	1.24
	F	-	-	-	-	2	2	0.83
	T	-	-	2	-	3	5	2.07
Curvature of spine	M	-	-	-	-	-	-	-
	F	-	-	-	1	1	2	0.83
	T	-	-	-	1	1	2	0.83
Total Diagnoses	**M**	1	12	24	30	43	110	45.45
	F	2	8	23	16	79	128	52.89
	T	3	21	49	47	122	242	100.0
Total Cases	**M**	1	12	16	25	34	88	
	F	2	7	17	14	59	99	
	T	3	20	35	40	93	191	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 70

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
13 Okanagan Health Service Delivery Area

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	-	-	-	-	-	-
	F	-	-	1	-	-	1	0.14
	T	-	-	1	-	-	1	0.14
Hemangioma and lymphangiona	M	1	6	7	4	4	22	3.12
	F	4	8	3	-	3	18	2.55
	T	5	14	11	4	7	41	5.81
Neurofibromatosis/ von Recklinghausen's	M	-	-	-	-	-	-	-
	F	-	-	-	-	1	1	0.14
	T	-	-	-	-	2	2	0.28
Diabetes mellitus	M	-	1	1	2	-	4	0.57
	F	-	2	2	3	4	11	1.56
	T	-	3	3	5	4	15	2.12
Disorders of adrenal glands	M	-	-	3	2	1	6	0.85
	F	-	1	1	-	-	2	0.28
	T	-	1	4	2	1	8	1.13
Tourette's syndrome	M	-	-	1	2	5	8	1.13
	F	-	-	-	-	-	-	-
	T	-	-	1	2	5	8	1.13
Hyperkinetic syndrome	M	-	-	-	4	18	22	3.12
	F	-	-	-	3	2	5	0.71
	T	-	-	-	7	20	27	3.82
Stuttering and specific developmental delays	M	-	15	13	16	26	70	9.92
	F	-	3	7	15	9	34	4.82
	T	-	18	24	33	35	110	15.58
Mental retardation	M	3	7	15	8	15	48	6.80
	F	3	12	10	8	17	50	7.08
	T	6	20	25	18	32	101	14.31
Childhood cerebral degenerations and acquired hydrocephalus	M	1	7	7	-	3	18	2.55
	F	-	4	-	7	6	17	2.41
	T	1	11	7	7	9	35	4.96
Infantile cerebral palsy	M	-	3	8	3	12	26	3.68
	F	-	-	2	6	10	18	2.55
	T	-	3	10	9	22	44	6.23
Hemiplegia	M	-	-	-	2	2	4	0.57
	F	-	-	2	-	1	3	0.42
	T	-	-	2	2	3	7	0.99
Quadriplegia	M	-	-	-	1	-	1	0.14
	F	-	-	-	1	-	1	0.14
	T	-	-	-	2	-	2	0.28
Paraplegia	M	-	-	-	2	1	3	0.42
	F	-	-	-	1	-	1	0.14
	T	-	-	-	3	1	4	0.57
Other paralytic syndromes	M	-	1	1	-	1	3	0.42
	F	-	-	2	3	3	8	1.13
	T	-	1	3	3	4	11	1.56
Epilepsy	M	4	20	15	5	17	61	8.64
	F	-	16	10	12	14	52	7.37
	T	4	36	25	17	31	113	16.01
Retrolental fibroplasia	M	-	-	1	2	3	6	0.85
	F	-	1	-	-	1	2	0.28
	T	-	1	1	2	4	8	1.13
All other visual impairments/ blindness	M	-	1	5	23	24	53	7.51
	F	-	1	9	12	31	53	7.51
	T	-	2	14	35	55	106	15.01
Abnormal auditory perception and deafness	M	-	1	1	6	8	16	2.27
	F	-	2	4	6	-	12	1.70
	T	-	3	6	12	8	29	4.11
Rheumatoid arthritis (juvenile)	M	-	-	2	1	1	4	0.57
	F	-	-	-	2	1	3	0.42
	T	-	-	2	3	2	7	0.99
Disorders of muscle, ligament and fascia	M	-	-	-	1	3	4	0.57
	F	-	-	-	-	-	-	-
	T	-	-	-	1	3	4	0.57
Osteochondropathies	M	-	-	-	1	2	3	0.42
	F	-	-	-	-	-	-	-
	T	-	-	-	1	2	3	0.42
Other acquired deformities of limbs	M	-	1	-	2	3	6	0.85
	F	-	-	2	2	5	9	1.27
	T	-	1	2	4	8	15	2.12
Curvature of spine	M	-	-	1	-	2	3	0.42
	F	-	-	-	-	2	2	0.28
	T	-	-	1	-	4	5	0.71
Total Diagnoses	**M**	9	63	81	87	151	391	55.38
	F	7	50	55	81	110	303	42.92
	T	16	114	142	172	262	706	100.0
Total Cases	**M**	8	55	58	63	102	286	
	F	6	47	45	51	78	227	
	T	14	103	109	117	181	524	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 71

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
14 Thompson Cariboo Health Service Delivery Area

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-
Hemangioma and lymphangiona	M	1	2	2	4	1	10	1.51
	F	4	3	3	3	1	14	2.11
	T	5	5	5	7	2	24	3.62
Neurofibromatosis/ von Recklinghausen's	M	-	-	1	-	-	1	0.15
	F	-	-	-	-	1	1	0.15
	T	-	-	1	1	2	4	0.60
Diabetes mellitus	M	-	-	2	2	5	9	1.36
	F	-	3	1	-	7	11	1.66
	T	-	3	3	2	12	20	3.02
Disorders of adrenal glands	M	-	-	-	1	2	3	0.45
	F	-	-	1	1	2	4	0.60
	T	-	-	1	2	4	7	1.06
Tourette's syndrome	M	-	-	-	3	4	7	1.06
	F	-	-	-	-	-	-	-
	T	-	-	-	4	4	8	1.21
Hyperkinetic syndrome	M	-	-	2	7	3	12	1.81
	F	-	-	-	-	3	3	0.45
	T	-	-	2	7	6	15	2.26
Stuttering and specific developmental delays	M	-	6	12	18	24	60	9.05
	F	-	3	5	7	10	25	3.77
	T	-	9	20	28	35	92	13.88
Mental retardation	M	1	4	5	15	20	45	6.79
	F	1	-	5	14	15	35	5.28
	T	2	4	10	29	36	81	12.22
Childhood cerebral degenerations and acquired hydrocephalus	M	-	3	3	3	6	15	2.26
	F	-	5	-	2	4	11	1.66
	T	-	8	3	5	10	26	3.92
Infantile cerebral palsy	M	-	1	4	16	16	37	5.58
	F	-	1	3	11	18	33	4.98
	T	-	2	7	27	34	70	10.56
Hemiplegia	M	-	-	-	1	1	2	0.30
	F	-	-	2	2	3	7	1.06
	T	-	-	2	3	4	9	1.36
Quadriplegia	M	-	-	1	1	1	3	0.45
	F	-	-	-	1	4	5	0.75
	T	-	-	1	2	5	8	1.21
Paraplegia	M	-	-	1	1	1	3	0.45
	F	-	-	-	-	2	2	0.30
	T	-	-	1	1	3	5	0.75
Other paralytic syndromes	M	-	-	1	1	2	4	0.60
	F	-	-	1	1	3	5	0.75
	T	-	-	2	2	5	9	1.36
Epilepsy	M	2	11	8	12	25	58	8.75
	F	-	8	7	11	25	51	7.69
	T	2	19	15	23	50	109	16.44
Retrolental fibroplasia	M	-	-	-	1	4	5	0.75
	F	-	1	1	1	3	6	0.90
	T	-	1	1	2	7	11	1.66
All other visual impairments/ blindness	M	-	1	5	22	25	53	7.99
	F	-	3	6	8	29	46	6.94
	T	-	4	11	30	54	99	14.93
Abnormal auditory perception and deafness	M	-	1	-	3	10	14	2.11
	F	-	1	-	3	9	13	1.96
	T	-	2	-	7	19	28	4.22
Rheumatoid arthritis (juvenile)	M	-	-	-	-	1	1	0.15
	F	-	1	1	1	6	9	1.36
	T	-	1	1	1	7	10	1.51
Disorders of muscle, ligament and fascia	M	-	-	-	-	3	3	0.45
	F	-	-	-	-	1	1	0.15
	T	-	-	-	-	4	4	0.60
Osteochondropathies	M	-	-	-	-	6	6	0.90
	F	-	-	2	-	-	2	0.30
	T	-	-	2	-	6	8	1.21
Other acquired deformities of limbs	M	-	-	1	-	4	5	0.75
	F	-	-	-	1	2	3	0.45
	T	-	-	1	1	6	8	1.21
Curvature of spine	M	-	-	1	-	2	3	0.45
	F	-	1	-	1	3	5	0.75
	T	-	1	1	1	5	8	1.21
Total Diagnoses	**M**	4	29	49	111	166	359	54.15
	F	5	30	38	68	151	292	44.04
	T	9	59	90	185	320	663	100.0
Total Cases	**M**	4	26	37	70	121	258	
	F	4	21	29	54	98	206	
	T	8	47	69	129	221	474	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 72

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
21 Fraser Valley Health Service Delivery Area

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	1	1	-	-	2	0.26
	F	-	-	-	-	-	-	-
	T	-	1	1	-	-	2	0.26
Hemangioma and lymphangiona	M	-	2	4	-	-	6	0.77
	F	1	2	3	-	4	10	1.28
	T	1	4	7	-	4	16	2.05
Neurofibromatosis/ von Recklinghausen's	M	-	-	-	2	2	4	0.51
	F	-	-	1	-	1	2	0.26
	T	-	-	1	2	3	6	0.77
Diabetes mellitus	M	1	2	2	-	9	14	1.79
	F	-	-	3	6	4	13	1.66
	T	1	3	5	6	13	28	3.58
Disorders of adrenal glands	M	-	-	-	-	2	2	0.26
	F	-	-	2	2	1	5	0.64
	T	-	-	2	2	3	7	0.90
Tourette's syndrome	M	-	-	1	2	-	3	0.38
	F	-	-	-	-	1	1	0.13
	T	-	-	1	2	1	4	0.51
Hyperkinetic syndrome	M	-	-	-	4	12	16	2.05
	F	-	-	-	2	6	8	1.02
	T	-	-	-	6	19	25	3.20
Stuttering and specific developmental delays	M	-	9	10	14	15	48	6.14
	F	-	3	11	15	12	41	5.24
	T	-	15	24	30	28	97	12.40
Mental retardation	M	3	14	16	9	13	55	7.03
	F	-	10	9	11	14	44	5.63
	T	3	25	25	20	27	100	12.79
Childhood cerebral degenerations and acquired hydrocephalus	M	1	5	3	3	3	15	1.92
	F	-	2	8	3	10	23	2.94
	T	1	7	11	6	13	38	4.86
Infantile cerebral palsy	M	-	4	9	16	10	39	4.99
	F	-	5	10	14	11	40	5.12
	T	-	9	19	30	21	79	10.10
Hemiplegia	M	-	-	3	1	1	5	0.64
	F	-	-	2	1	4	7	0.90
	T	-	-	5	2	5	12	1.53
Quadriplegia	M	-	-	1	-	1	2	0.26
	F	-	-	1	-	-	1	0.13
	T	-	-	2	-	1	3	0.38
Paraplegia	M	-	-	-	-	-	-	-
	F	-	-	-	1	2	3	0.38
	T	-	-	-	1	2	3	0.38
Other paralytic syndromes	M	-	-	1	3	1	5	0.64
	F	-	-	1	2	5	8	1.02
	T	-	-	2	5	6	13	1.66
Epilepsy	M	-	18	9	23	26	76	9.72
	F	2	9	16	24	24	75	9.59
	T	2	27	25	47	50	151	19.31
Retrolental fibroplasia	M	-	1	1	-	2	4	0.51
	F	-	-	1	3	1	5	0.64
	T	-	1	2	3	3	9	1.15
All other visual impairments/ blindness	M	-	2	2	24	32	60	7.67
	F	-	5	9	19	28	61	7.80
	T	-	7	11	43	62	123	15.73
Abnormal auditory perception and deafness	M	-	1	1	4	6	12	1.53
	F	-	-	3	2	6	11	1.41
	T	-	1	4	6	12	23	2.94
Rheumatoid arthritis (juvenile)	M	-	-	-	2	1	3	0.38
	F	-	-	-	-	4	4	0.51
	T	-	-	-	2	5	7	0.90
Disorders of muscle, ligament and fascia	M	-	-	-	1	-	1	0.13
	F	-	-	-	-	-	-	-
	T	-	-	-	1	-	1	0.13
Osteochondropathies	M	-	-	-	1	7	8	1.02
	F	-	-	-	2	2	4	0.51
	T	-	-	-	3	9	12	1.53
Other acquired deformities of limbs	M	-	-	2	-	3	5	0.64
	F	-	-	2	2	1	5	0.64
	T	-	-	4	2	4	10	1.28
Curvature of spine	M	-	1	-	-	3	4	0.51
	F	-	-	2	2	5	9	1.15
	T	-	1	2	2	8	13	1.66
Total Diagnoses	**M**	5	60	66	109	149	389	49.74
	F	3	36	84	111	146	380	48.59
	T	8	101	153	221	299	782	100.0
Total Cases	**M**	5	45	55	73	105	283	
	F	3	27	61	73	101	265	
	T	8	75	119	147	208	557	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 73

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
22 Simon Fraser Health Service Delivery Area

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	2	1	1	-	4	0.26
	F	-	-	1	-	-	1	0.06
	T	-	2	2	1	-	5	0.32
Hemangioma and lymphangiona	M	1	8	5	5	7	26	1.69
	F	1	15	7	1	2	26	1.69
	T	2	23	12	6	9	52	3.37
Neurofibromatosis/ von Recklinghausen's	M	-	-	1	1	-	2	0.13
	F	-	1	1	2	2	6	0.39
	T	-	1	4	3	3	11	0.71
Diabetes mellitus	M	-	5	4	9	20	38	2.47
	F	-	1	6	19	18	44	2.86
	T	-	6	10	28	38	82	5.32
Disorders of adrenal glands	M	-	1	3	2	1	7	0.45
	F	-	4	-	-	-	4	0.26
	T	-	5	3	2	1	11	0.71
Tourette's syndrome	M	-	-	-	2	6	8	0.52
	F	-	-	-	-	1	1	0.06
	T	-	-	-	2	7	9	0.58
Hyperkinetic syndrome	M	-	-	1	10	20	31	2.01
	F	-	-	-	3	7	10	0.65
	T	-	-	1	13	28	42	2.73
Stuttering and specific developmental delays	M	-	20	32	49	38	139	9.02
	F	-	14	18	22	17	71	4.61
	T	-	37	57	73	56	223	14.47
Mental retardation	M	6	7	25	12	29	79	5.13
	F	1	15	16	16	19	67	4.35
	T	7	24	43	28	50	152	9.86
Childhood cerebral degenerations and acquired hydrocephalus	M	1	9	9	6	6	31	2.01
	F	-	4	3	6	4	17	1.10
	T	1	13	12	12	10	48	3.11
Infantile cerebral palsy	M	-	8	13	24	19	64	4.15
	F	-	1	10	17	14	42	2.73
	T	-	9	23	41	33	106	6.88
Hemiplegia	M	-	1	3	2	7	13	0.84
	F	-	-	-	5	2	7	0.45
	T	-	1	3	7	9	20	1.30
Quadriplegia	M	-	-	-	1	2	3	0.19
	F	-	-	-	3	2	5	0.32
	T	-	-	-	4	4	8	0.52
Paraplegia	M	-	-	-	1	1	2	0.13
	F	-	-	-	1	1	2	0.13
	T	-	-	-	2	2	4	0.26
Other paralytic syndromes	M	-	-	1	5	4	10	0.65
	F	-	1	4	5	6	16	1.04
	T	-	1	5	10	10	26	1.69
Epilepsy	M	7	29	34	36	47	153	9.93
	F	4	26	26	46	42	144	9.34
	T	11	56	60	82	89	298	19.34
Retrolental fibroplasia	M	3	8	5	5	1	22	1.43
	F	-	3	2	5	5	15	0.97
	T	3	11	7	10	6	37	2.40
All other visual impairments/ blindness	M	6	18	29	29	43	125	8.11
	F	-	7	17	24	52	100	6.49
	T	6	26	46	53	96	227	14.73
Abnormal auditory perception and deafness	M	-	1	9	9	11	30	1.95
	F	-	2	5	6	11	24	1.56
	T	-	5	15	17	22	59	3.83
Rheumatoid arthritis (juvenile)	M	-	-	-	1	8	9	0.58
	F	-	-	-	6	5	11	0.71
	T	-	-	-	7	13	20	1.30
Disorders of muscle, ligament and fascia	M	-	1	1	2	3	7	0.45
	F	-	-	-	1	2	3	0.19
	T	-	1	1	3	5	10	0.65
Osteochondropathies	M	-	-	5	9	6	20	1.30
	F	-	-	2	6	-	8	0.52
	T	-	-	7	15	6	28	1.82
Other acquired deformities of limbs	M	-	3	2	7	13	25	1.62
	F	1	-	2	8	10	21	1.36
	T	1	3	4	15	23	46	2.99
Curvature of spine	M	-	-	-	-	2	2	0.13
	F	-	-	1	3	11	15	0.97
	T	-	-	1	3	13	17	1.10
Total Diagnoses	**M**	24	121	183	228	294	850	55.16
	F	7	94	121	205	233	660	42.83
	T	31	224	316	437	533	1,541	100.0
Total Cases	**M**	20	87	131	160	217	615	
	F	7	80	80	134	163	464	
	T	27	172	222	297	384	1,102	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 74

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
23 South Fraser Health Service Delivery Area

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	1	2	-	2	5	0.27
	F	-	-	1	-	-	1	0.05
	T	-	1	3	-	2	6	0.32
Hemangioma and lymphangiona	M	-	8	6	3	-	17	0.91
	F	2	4	5	4	3	18	0.96
	T	2	12	11	7	3	35	1.87
Neurofibromatosis/ von Recklinghausen's	M	-	1	2	1	1	5	0.27
	F	-	1	1	3	1	6	0.32
	T	-	2	4	6	3	15	0.80
Diabetes mellitus	M	-	2	9	21	29	61	3.26
	F	-	1	11	13	29	54	2.89
	T	-	3	20	34	58	115	6.15
Disorders of adrenal glands	M	-	-	2	2	2	6	0.32
	F	-	3	4	-	3	10	0.53
	T	-	3	6	2	5	16	0.86
Tourette's syndrome	M	-	-	-	1	8	9	0.48
	F	-	-	-	1	2	3	0.16
	T	-	-	-	2	11	13	0.70
Hyperkinetic syndrome	M	-	-	1	21	22	44	2.35
	F	-	-	-	3	4	7	0.37
	T	-	-	2	24	26	52	2.78
Stuttering and specific developmental delays	M	-	11	35	59	50	155	8.29
	F	-	13	32	25	24	94	5.03
	T	-	25	78	93	75	271	14.49
Mental retardation	M	5	16	25	33	27	106	5.67
	F	2	8	23	24	32	89	4.76
	T	7	26	48	58	59	198	10.59
Childhood cerebral degenerations and acquired hydrocephalus	M	-	3	12	9	20	44	2.35
	F	-	6	3	12	13	34	1.82
	T	-	10	15	21	33	79	4.22
Infantile cerebral palsy	M	-	1	20	29	30	80	4.28
	F	-	6	17	25	17	65	3.48
	T	-	7	37	54	47	145	7.75
Hemiplegia	M	-	-	4	2	5	11	0.59
	F	-	-	1	4	5	10	0.53
	T	-	-	5	6	10	21	1.12
Quadriplegia	M	-	-	-	2	2	4	0.21
	F	-	-	-	-	1	1	0.05
	T	-	-	-	2	3	5	0.27
Paraplegia	M	-	-	1	-	3	4	0.21
	F	-	-	-	-	1	1	0.05
	T	-	-	1	-	4	5	0.27
Other paralytic syndromes	M	-	-	1	3	4	8	0.43
	F	-	-	4	2	9	15	0.80
	T	-	-	5	5	13	23	1.23
Epilepsy	M	1	31	35	66	76	209	11.18
	F	4	24	38	37	74	177	9.47
	T	5	57	74	103	150	389	20.80
Retrolental fibroplasia	M	-	2	2	4	5	13	0.70
	F	-	1	3	5	6	15	0.80
	T	-	3	5	9	11	28	1.50
All other visual impairments/ blindness	M	-	16	18	38	54	126	6.74
	F	5	8	15	41	54	123	6.58
	T	5	24	33	79	108	249	13.32
Abnormal auditory perception and deafness	M	1	3	8	11	21	44	2.35
	F	-	4	9	10	9	32	1.71
	T	1	7	17	21	30	76	4.06
Rheumatoid arthritis (juvenile)	M	-	-	-	2	5	7	0.37
	F	-	-	1	9	12	22	1.18
	T	-	-	1	11	17	29	1.55
Disorders of muscle, ligament and fascia	M	-	1	-	-	3	4	0.21
	F	-	1	-	1	-	2	0.11
	T	-	2	-	1	3	6	0.32
Osteochondropathies	M	-	-	3	7	11	21	1.12
	F	-	1	-	-	4	5	0.27
	T	-	1	3	7	15	26	1.39
Other acquired deformities of limbs	M	-	3	6	4	8	21	1.12
	F	-	-	7	5	7	19	1.02
	T	-	3	13	9	15	40	2.14
Curvature of spine	M	-	1	-	2	2	5	0.27
	F	-	1	2	3	17	23	1.23
	T	-	2	2	5	19	28	1.50
Total Diagnoses	**M**	7	100	192	320	390	1,009	53.96
	F	13	82	177	227	327	826	44.17
	T	20	188	383	559	720	1,870	100.0
Total Cases	**M**	4	88	138	205	255	690	
	F	11	67	121	145	226	570	
	T	15	160	271	360	484	1,290	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 75

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
31 Richmond Health Service Delivery Area

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	-	-	-	1	1	0.16
	F	-	-	1	-	-	1	0.16
	T	-	-	1	-	1	2	0.33
Hemangioma and lymphangiona	M	-	1	2	1	-	4	0.66
	F	-	1	1	1	1	4	0.66
	T	-	4	3	2	1	10	1.64
Neurofibromatosis/ von Recklinghausen's	M	-	-	-	-	1	1	0.16
	F	-	1	-	-	-	1	0.16
	T	-	1	-	-	1	2	0.33
Diabetes mellitus	M	-	2	3	8	12	25	4.11
	F	-	1	1	6	5	13	2.13
	T	-	3	4	14	17	38	6.24
Disorders of adrenal glands	M	-	-	-	1	-	1	0.16
	F	-	-	-	1	-	1	0.16
	T	-	-	-	2	-	2	0.33
Tourette's syndrome	M	-	-	-	4	1	5	0.82
	F	-	-	-	-	-	-	-
	T	-	-	-	4	1	5	0.82
Hyperkinetic syndrome	M	-	-	1	8	8	17	2.79
	F	-	-	-	-	5	5	0.82
	T	-	-	1	8	13	22	3.61
Stuttering and specific developmental delays	M	-	5	12	21	24	62	10.18
	F	-	5	4	14	11	34	5.58
	T	-	11	19	36	35	101	16.58
Mental retardation	M	1	-	10	12	13	36	5.91
	F	2	5	8	4	10	29	4.76
	T	3	6	18	16	23	66	10.84
Childhood cerebral degenerations and acquired hydrocephalus	M	-	1	-	3	-	4	0.66
	F	-	1	-	2	1	4	0.66
	T	-	2	-	5	1	8	1.31
Infantile cerebral palsy	M	-	-	8	11	7	26	4.27
	F	-	1	2	3	11	17	2.79
	T	-	1	10	14	18	43	7.06
Hemiplegia	M	-	-	1	-	1	2	0.33
	F	-	-	1	3	1	5	0.82
	T	-	-	2	3	2	7	1.15
Quadriplegia	M	-	-	-	1	3	4	0.66
	F	-	-	-	1	-	1	0.16
	T	-	-	-	2	3	5	0.82
Paraplegia	M	-	-	-	-	1	1	0.16
	F	-	-	-	-	1	1	0.16
	T	-	-	-	-	2	2	0.33
Other paralytic syndromes	M	-	-	3	-	1	4	0.66
	F	-	-	2	2	4	8	1.31
	T	-	-	5	2	5	12	1.97
Epilepsy	M	-	8	19	20	29	76	12.48
	F	1	6	7	22	27	63	10.34
	T	1	14	26	42	56	139	22.82
Retrolental fibroplasia	M	-	-	-	2	1	3	0.49
	F	-	-	1	1	1	3	0.49
	T	-	-	1	3	2	6	0.99
All other visual impairments/ blindness	M	-	1	10	9	31	51	8.37
	F	-	2	3	6	13	24	3.94
	T	-	3	13	15	46	77	12.64
Abnormal auditory perception and deafness	M	-	-	1	3	9	13	2.13
	F	-	-	3	1	12	16	2.63
	T	-	-	4	4	21	29	4.76
Rheumatoid arthritis (juvenile)	M	-	-	-	-	2	2	0.33
	F	-	-	-	1	2	3	0.49
	T	-	-	-	1	4	5	0.82
Disorders of muscle, ligament and fascia	M	-	-	-	2	-	2	0.33
	F	-	-	-	-	1	1	0.16
	T	-	-	-	2	1	3	0.49
Osteochondropathies	M	-	1	-	2	1	4	0.66
	F	-	-	1	-	-	1	0.16
	T	-	1	1	2	1	5	0.82
Other acquired deformities of limbs	M	-	-	2	1	2	5	0.82
	F	-	-	-	-	2	2	0.33
	T	-	-	2	1	4	7	1.15
Curvature of spine	M	-	-	1	-	2	3	0.49
	F	-	-	-	1	9	10	1.64
	T	-	-	1	1	11	13	2.13
Total Diagnoses	**M**	1	19	73	109	150	352	57.80
	F	3	23	35	69	117	247	40.56
	T	4	46	111	179	269	609	100.0
Total Cases	**M**	1	18	48	78	95	240	
	F	3	20	30	41	68	162	
	T	4	42	81	120	164	411	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 76

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
32 Vancouver Health Service Delivery Area

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	-	1	2	-	3	0.12
	F	-	-	-	-	2	2	0.08
	T	-	-	1	2	2	5	0.20
Hemangioma and lymphangiona	M	7	15	10	6	8	46	1.87
	F	8	16	4	8	6	42	1.71
	T	18	32	14	14	14	92	3.75
Neurofibromatosis/ von Recklinghausen's	M	-	1	1	2	3	7	0.29
	F	-	-	2	2	3	7	0.29
	T	-	1	4	5	6	16	0.65
Diabetes mellitus	M	-	4	2	26	25	57	2.32
	F	-	2	11	11	18	42	1.71
	T	-	6	13	37	43	99	4.03
Disorders of adrenal glands	M	1	-	4	1	1	7	0.29
	F	-	1	2	1	2	6	0.24
	T	1	1	6	2	3	13	0.53
Tourette's syndrome	M	-	-	-	6	4	10	0.41
	F	-	-	-	1	3	4	0.16
	T	-	-	-	7	7	14	0.57
Hyperkinetic syndrome	M	-	1	3	8	21	33	1.34
	F	-	-	-	4	7	11	0.45
	T	-	1	3	13	28	45	1.83
Stuttering and specific developmental delays	M	-	27	38	61	97	223	9.09
	F	1	20	36	44	41	142	5.79
	T	1	49	84	108	140	382	15.57
Mental retardation	M	9	18	18	32	61	138	5.62
	F	11	17	21	33	34	116	4.73
	T	26	37	40	65	97	265	10.80
Childhood cerebral degenerations and acquired hydrocephalus	M	2	13	5	5	10	35	1.43
	F	-	10	6	8	1	25	1.02
	T	2	23	11	13	11	60	2.44
Infantile cerebral palsy	M	-	9	17	20	42	88	3.59
	F	-	5	13	28	28	74	3.02
	T	-	15	30	48	70	163	6.64
Hemiplegia	M	-	1	-	2	9	12	0.49
	F	-	-	2	3	4	9	0.37
	T	-	1	2	5	13	21	0.86
Quadriplegia	M	-	-	-	2	2	4	0.16
	F	-	1	-	2	1	4	0.16
	T	-	1	-	4	3	8	0.33
Paraplegia	M	-	1	1	3	2	7	0.29
	F	-	-	2	1	1	4	0.16
	T	-	1	3	4	3	11	0.45
Other paralytic syndromes	M	-	1	2	8	8	19	0.77
	F	-	-	2	4	9	15	0.61
	T	-	1	4	12	17	34	1.39
Epilepsy	M	1	45	73	118	141	378	15.40
	F	7	49	47	102	102	307	12.51
	T	8	95	120	220	244	687	28.00
Retrolental fibroplasia	M	1	11	2	7	8	29	1.18
	F	3	13	1	9	2	28	1.14
	T	4	24	3	16	10	57	2.32
All other visual impairments/ blindness	M	2	28	28	48	76	182	7.42
	F	5	23	14	38	39	119	4.85
	T	7	51	44	89	122	313	12.75
Abnormal auditory perception and deafness	M	-	4	8	7	12	31	1.26
	F	1	3	7	7	14	32	1.30
	T	1	7	16	15	26	65	2.65
Rheumatoid arthritis (juvenile)	M	-	-	-	-	13	13	0.53
	F	-	-	-	7	5	12	0.49
	T	-	-	-	7	18	25	1.02
Disorders of muscle, ligament and fascia	M	-	-	-	-	-	-	-
	F	-	-	1	2	3	6	0.24
	T	-	-	1	2	3	6	0.24
Osteochondropathies	M	-	-	2	7	6	15	0.61
	F	-	-	1	2	1	4	0.16
	T	-	-	3	9	7	19	0.77
Other acquired deformities of limbs	M	-	1	1	8	16	26	1.06
	F	-	4	3	6	4	17	0.69
	T	-	6	4	14	20	44	1.79
Curvature of spine	M	-	-	-	1	5	6	0.24
	F	-	-	-	1	3	4	0.16
	T	-	-	-	2	8	10	0.41
Total Diagnoses	**M**	23	180	216	380	570	1,369	55.79
	F	36	164	175	324	333	1,032	42.05
	T	68	352	406	713	915	2,454	100.0
Total Cases	**M**	21	134	149	265	388	957	
	F	26	127	127	234	251	765	
	T	56	268	290	506	645	1,765	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 77

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
33 North Shore/Coast Garibaldi Health Service Delivery Area

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	-	-	-	-	-	-
	F	-	-	1	-	1	2	0.25
	T	-	-	1	-	1	2	0.25
Hemangioma and lymphangiona	M	-	4	4	1	1	10	1.26
	F	1	2	5	3	5	16	2.01
	T	1	6	9	4	6	26	3.27
Neurofibromatosis/ von Recklinghausen's	M	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-
	T	-	-	-	1	1	2	0.25
Diabetes mellitus	M	-	2	-	5	5	12	1.51
	F	-	-	4	7	4	15	1.89
	T	-	2	4	12	9	27	3.40
Disorders of adrenal glands	M	-	1	-	-	-	1	0.13
	F	-	-	1	-	-	1	0.13
	T	-	1	1	-	-	2	0.25
Tourette's syndrome	M	-	-	-	-	3	3	0.38
	F	-	-	-	-	1	1	0.13
	T	-	-	-	-	4	4	0.50
Hyperkinetic syndrome	M	-	-	-	4	9	13	1.64
	F	-	-	-	2	3	5	0.63
	T	-	-	-	6	12	18	2.26
Stuttering and specific developmental delays	M	-	6	18	20	29	73	9.18
	F	-	4	13	15	7	39	4.91
	T	-	12	35	38	36	121	15.22
Mental retardation	M	4	5	5	12	16	42	5.28
	F	-	7	7	8	19	41	5.16
	T	4	12	13	20	36	85	10.69
Childhood cerebral degenerations and acquired hydrocephalus	M	-	4	7	5	3	19	2.39
	F	-	3	1	2	2	8	1.01
	T	-	7	8	7	5	27	3.40
Infantile cerebral palsy	M	-	1	8	12	11	32	4.03
	F	-	1	6	14	10	31	3.90
	T	-	2	14	26	21	63	7.92
Hemiplegia	M	-	-	1	2	2	5	0.63
	F	-	-	1	1	1	3	0.38
	T	-	-	2	3	3	8	1.01
Quadriplegia	M	-	-	1	1	1	3	0.38
	F	-	-	-	-	-	-	-
	T	-	-	1	1	1	3	0.38
Paraplegia	M	-	-	1	-	1	2	0.25
	F	-	-	-	-	-	-	-
	T	-	-	1	-	1	2	0.25
Other paralytic syndromes	M	-	1	-	3	3	7	0.88
	F	-	-	2	3	5	10	1.26
	T	-	1	2	6	8	17	2.14
Epilepsy	M	-	15	17	21	34	87	10.94
	F	-	16	9	17	32	74	9.31
	T	-	32	26	38	66	162	20.38
Retrolental fibroplasia	M	-	-	-	1	2	3	0.38
	F	-	-	1	5	6	12	1.51
	T	-	-	1	6	8	15	1.89
All other visual impairments/ blindness	M	-	1	10	12	26	49	6.16
	F	1	7	3	29	26	66	8.30
	T	1	8	13	41	52	115	14.47
Abnormal auditory perception and deafness	M	-	-	3	6	4	13	1.64
	F	-	-	-	2	5	7	0.88
	T	-	-	3	9	9	21	2.64
Rheumatoid arthritis (juvenile)	M	-	-	-	-	5	5	0.63
	F	-	-	-	1	3	4	0.50
	T	-	-	-	1	8	9	1.13
Disorders of muscle, ligament and fascia	M	-	-	-	1	1	2	0.25
	F	-	-	-	3	1	4	0.50
	T	-	-	-	4	2	6	0.75
Osteochondropathies	M	-	1	3	7	8	19	2.39
	F	-	-	-	3	1	4	0.50
	T	-	1	3	10	9	23	2.89
Other acquired deformities of limbs	M	1	1	1	8	7	18	2.26
	F	-	-	2	3	1	6	0.75
	T	1	1	3	11	8	24	3.02
Curvature of spine	M	-	-	-	-	4	4	0.50
	F	-	-	-	1	8	9	1.13
	T	-	-	-	1	12	13	1.64
Total Diagnoses	**M**	5	42	79	121	175	422	53.08
	F	2	40	56	119	141	358	45.03
	T	7	85	140	245	318	795	100.0
Total Cases	**M**	4	37	61	78	123	303	
	F	2	33	41	73	102	251	
	T	6	72	107	155	227	567	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 78

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
41 South Vancouver Island Health Service Delivery Area

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	1	1	-	-	2	0.13
	F	-	-	1	-	1	2	0.13
	T	-	1	2	-	1	4	0.26
Hemangioma and lymphangiona	M	1	1	5	1	3	11	0.73
	F	3	3	2	3	3	14	0.92
	T	4	4	7	4	6	25	1.65
Neurofibromatosis/ von Recklinghausen's	M	-	-	1	1	2	4	0.26
	F	-	2	6	3	1	12	0.79
	T	-	2	8	5	3	18	1.19
Diabetes mellitus	M	-	1	4	10	14	29	1.92
	F	-	-	2	17	9	28	1.85
	T	-	1	6	27	23	57	3.76
Disorders of adrenal glands	M	-	-	1	1	-	2	0.13
	F	-	-	1	3	-	4	0.26
	T	-	-	2	4	-	6	0.40
Tourette's syndrome	M	-	-	2	6	3	11	0.73
	F	-	-	-	2	1	3	0.20
	T	-	-	2	8	4	14	0.92
Hyperkinetic syndrome	M	-	-	6	43	19	68	4.49
	F	-	-	3	9	3	15	0.99
	T	-	-	9	52	22	83	5.48
Stuttering and specific developmental delays	M	1	9	23	88	46	167	11.03
	F	-	2	22	39	37	100	6.61
	T	1	11	45	129	83	269	17.77
Mental retardation	M	-	14	19	19	23	75	4.95
	F	10	11	14	12	24	71	4.69
	T	10	25	33	31	47	146	9.64
Childhood cerebral degenerations and acquired hydrocephalus	M	-	10	3	5	2	20	1.32
	F	-	5	2	4	2	13	0.86
	T	-	15	5	9	4	33	2.18
Infantile cerebral palsy	M	-	4	16	22	16	58	3.83
	F	-	5	14	20	17	56	3.70
	T	-	9	30	42	33	114	7.53
Hemiplegia	M	-	-	1	1	-	2	0.13
	F	-	-	-	2	3	5	0.33
	T	-	-	1	3	3	7	0.46
Quadriplegia	M	-	-	1	1	-	2	0.13
	F	-	-	-	2	1	3	0.20
	T	-	-	1	3	1	5	0.33
Paraplegia	M	-	-	-	-	2	2	0.13
	F	-	-	-	-	-	-	-
	T	-	-	-	-	2	2	0.13
Other paralytic syndromes	M	-	-	4	2	-	6	0.40
	F	-	-	1	1	3	5	0.33
	T	-	-	5	3	3	11	0.73
Epilepsy	M	1	13	12	26	30	82	5.42
	F	1	20	10	33	24	88	5.81
	T	2	33	22	59	54	170	11.23
Retrolental fibroplasia	M	4	16	5	1	-	26	1.72
	F	-	12	1	3	3	19	1.25
	T	4	28	6	4	3	45	2.97
All other visual impairments/ blindness	M	4	27	18	39	27	115	7.60
	F	-	19	22	30	35	106	7.00
	T	4	46	40	70	62	222	14.66
Abnormal auditory perception and deafness	M	-	14	49	43	24	130	8.59
	F	-	8	27	34	30	99	6.54
	T	-	22	76	77	54	229	15.13
Rheumatoid arthritis (juvenile)	M	-	-	-	4	4	8	0.53
	F	-	-	1	4	-	5	0.33
	T	-	-	1	8	4	13	0.86
Disorders of muscle, ligament and fascia	M	-	-	-	1	2	3	0.20
	F	-	-	-	-	3	3	0.20
	T	-	-	-	1	5	6	0.40
Osteochondropathies	M	-	-	3	1	1	5	0.33
	F	-	-	-	-	-	-	-
	T	-	-	3	1	1	5	0.33
Other acquired deformities of limbs	M	-	-	-	1	3	4	0.26
	F	-	1	-	1	8	10	0.66
	T	-	1	-	2	11	14	0.92
Curvature of spine	M	-	-	1	-	3	4	0.26
	F	-	-	2	4	6	12	0.79
	T	-	-	3	4	9	16	1.06
Total Diagnoses	**M**	11	110	175	316	224	836	55.22
	F	14	88	131	226	214	673	44.45
	T	25	198	307	546	438	1,514	100.0
Total Cases	**M**	7	71	128	245	164	615	
	F	12	64	92	164	133	465	
	T	19	135	221	413	297	1,085	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 79

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
42 Central Vancouver Island Health Service Delivery Area

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	1	-	1	1	3	0.37
	F	1	-	-	-	2	3	0.37
	T	1	1	-	1	3	6	0.74
Hemangioma and lymphangiona	M	-	4	2	4	3	13	1.60
	F	-	4	3	-	2	9	1.11
	T	-	8	5	4	5	22	2.71
Neurofibromatosis/ von Recklinghausen's	M	-	1	-	1	-	2	0.25
	F	-	1	1	1	2	5	0.62
	T	-	2	1	2	2	7	0.86
Diabetes mellitus	M	-	-	3	4	8	15	1.85
	F	-	1	2	3	13	19	2.34
	T	-	1	5	7	21	34	4.19
Disorders of adrenal glands	M	-	-	-	1	-	1	0.12
	F	-	-	1	1	-	2	0.25
	T	-	-	1	2	-	3	0.37
Tourette's syndrome	M	-	-	-	-	2	2	0.25
	F	-	-	-	-	-	-	-
	T	-	-	-	-	2	2	0.25
Hyperkinetic syndrome	M	-	-	1	1	2	4	0.49
	F	-	-	1	1	1	3	0.37
	T	-	-	2	2	3	7	0.86
Stuttering and specific developmental delays	M	-	4	18	13	29	64	7.89
	F	-	7	12	9	16	44	5.43
	T	-	11	31	23	45	110	13.56
Mental retardation	M	4	9	16	11	25	65	8.01
	F	-	5	9	11	12	37	4.56
	T	4	14	25	22	37	102	12.58
Childhood cerebral degenerations and acquired hydrocephalus	M	1	7	5	4	2	19	2.34
	F	-	3	5	2	4	14	1.73
	T	1	10	10	6	6	33	4.07
Infantile cerebral palsy	M	-	2	2	15	16	35	4.32
	F	-	-	7	6	17	30	3.70
	T	-	2	9	21	33	65	8.01
Hemiplegia	M	-	-	2	1	5	8	0.99
	F	-	-	-	-	3	3	0.37
	T	-	-	2	1	8	11	1.36
Quadriplegia	M	-	-	-	-	1	1	0.12
	F	-	-	-	-	1	1	0.12
	T	-	-	-	-	2	2	0.25
Paraplegia	M	-	-	-	1	3	4	0.49
	F	-	-	-	-	-	-	-
	T	-	-	-	1	3	4	0.49
Other paralytic syndromes	M	-	-	2	3	2	7	0.86
	F	-	-	2	1	5	8	0.99
	T	-	-	4	4	7	15	1.85
Epilepsy	M	1	12	14	15	33	75	9.25
	F	-	7	11	15	32	65	8.01
	T	1	19	25	30	65	140	17.26
Retrolental fibroplasia	M	-	-	2	2	6	10	1.23
	F	-	-	-	2	2	4	0.49
	T	-	-	2	4	8	14	1.73
All other visual impairments/ blindness	M	-	5	13	14	47	79	9.74
	F	-	6	8	11	28	53	6.54
	T	-	11	21	25	75	132	16.28
Abnormal auditory perception and deafness	M	-	1	8	5	11	25	3.08
	F	-	1	4	4	7	16	1.97
	T	-	2	12	9	18	41	5.06
Rheumatoid arthritis (juvenile)	M	-	-	2	3	1	6	0.74
	F	-	-	-	2	9	11	1.36
	T	-	-	2	5	10	17	2.10
Disorders of muscle, ligament and fascia	M	-	-	-	-	4	4	0.49
	F	-	-	1	-	3	4	0.49
	T	-	-	1	-	7	8	0.99
Osteochondropathies	M	-	1	1	3	7	12	1.48
	F	-	1	-	1	-	2	0.25
	T	-	2	1	4	7	14	1.73
Other acquired deformities of limbs	M	-	-	2	3	4	9	1.11
	F	-	-	2	-	5	7	0.86
	T	-	-	4	3	9	16	1.97
Curvature of spine	M	-	-	-	-	1	1	0.12
	F	-	-	1	-	4	5	0.62
	T	-	-	1	-	5	6	0.74
Total Diagnoses	**M**	6	47	93	105	213	464	57.21
	F	1	36	70	70	168	345	42.54
	T	7	83	164	176	381	811	100.0
Total Cases	**M**	5	42	70	70	143	330	
	F	1	30	54	52	119	256	
	T	6	72	125	123	262	588	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 80

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
43 North Vancouver Island Health Service Delivery Area

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	-	-	1	-	1	0.36
	F	-	-	-	-	-	-	-
	T	-	-	-	1	-	1	0.36
Hemangioma and lymphangiona	M	-	2	1	1	-	4	1.45
	F	-	1	1	2	1	5	1.81
	T	-	3	2	3	1	9	3.26
Neurofibromatosis/ von Recklinghausen's	M	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-
Diabetes mellitus	M	-	-	-	1	1	2	0.72
	F	-	-	-	1	4	5	1.81
	T	-	-	-	2	5	7	2.54
Disorders of adrenal glands	M	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-
Tourette's syndrome	M	-	-	1	-	1	2	0.72
	F	-	-	-	-	-	-	-
	T	-	-	1	-	1	2	0.72
Hyperkinetic syndrome	M	-	-	-	-	3	3	1.09
	F	-	-	-	-	-	-	-
	T	-	-	-	-	3	3	1.09
Stuttering and specific developmental delays	M	-	1	5	5	16	27	9.78
	F	-	2	3	1	2	8	2.90
	T	-	3	8	7	18	36	13.04
Mental retardation	M	-	-	3	8	7	18	6.52
	F	-	-	-	4	4	8	2.90
	T	-	-	3	12	11	26	9.42
Childhood cerebral degenerations and acquired hydrocephalus	M	-	2	1	1	1	5	1.81
	F	-	-	-	-	2	2	0.72
	T	-	2	1	1	3	7	2.54
Infantile cerebral palsy	M	-	-	1	6	11	18	6.52
	F	-	1	4	2	6	13	4.71
	T	-	1	5	8	17	31	11.23
Hemiplegia	M	-	-	1	1	3	5	1.81
	F	-	-	1	1	2	4	1.45
	T	-	-	2	2	5	9	3.26
Quadriplegia	M	-	-	-	-	1	1	0.36
	F	-	-	-	-	-	-	-
	T	-	-	-	-	1	1	0.36
Paraplegia	M	-	-	1	-	-	1	0.36
	F	-	-	-	-	1	1	0.36
	T	-	-	1	-	1	2	0.72
Other paralytic syndromes	M	-	-	-	-	5	5	1.81
	F	-	-	1	1	2	4	1.45
	T	-	-	1	1	7	9	3.26
Epilepsy	M	-	1	3	5	21	30	10.87
	F	1	1	8	7	12	29	10.51
	T	1	2	11	12	33	59	21.38
Retrolental fibroplasia	M	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-
All other visual impairments/ blindness	M	-	-	2	3	16	21	7.61
	F	-	1	1	6	5	13	4.71
	T	-	1	3	9	21	34	12.32
Abnormal auditory perception and deafness	M	-	-	6	3	1	10	3.62
	F	-	1	1	3	4	9	3.26
	T	-	1	7	6	5	19	6.88
Rheumatoid arthritis (juvenile)	M	-	-	-	2	-	2	0.72
	F	-	-	-	-	2	2	0.72
	T	-	-	-	2	2	4	1.45
Disorders of muscle, ligament and fascia	M	-	-	-	-	1	1	0.36
	F	-	-	-	-	-	-	-
	T	-	-	-	-	1	1	0.36
Osteochondropathies	M	-	-	-	-	1	1	0.36
	F	-	-	2	-	-	2	0.72
	T	-	-	2	-	1	3	1.09
Other acquired deformities of limbs	M	-	-	-	3	3	6	2.17
	F	-	-	2	1	3	6	2.17
	T	-	-	2	4	6	12	4.35
Curvature of spine	M	-	-	-	-	-	-	-
	F	-	-	-	-	1	1	0.36
	T	-	-	-	-	1	1	0.36
Total Diagnoses	**M**	-	6	25	40	92	163	59.06
	F	1	7	24	29	51	112	40.58
	T	1	13	49	70	143	276	100.0
Total Cases	**M**	-	6	21	28	52	107	
	F	1	3	14	21	37	76	
	T	1	9	35	50	89	184	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 81

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
51 Northwest Health Service Delivery Area

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-
Hemangioma and lymphangiona	M	-	-	1	1	3	5	1.22
	F	-	2	-	2	4	8	1.95
	T	-	2	1	3	7	13	3.16
Neurofibromatosis/ von Recklinghausen's	M	-	-	-	2	1	3	0.73
	F	-	-	-	-	1	1	0.24
	T	-	-	-	2	2	4	0.97
Diabetes mellitus	M	-	-	1	-	2	3	0.73
	F	-	1	1	1	4	7	1.70
	T	-	1	2	1	6	10	2.43
Disorders of adrenal glands	M	-	-	1	-	-	1	0.24
	F	-	-	-	-	-	-	-
	T	-	-	1	-	-	1	0.24
Tourette's syndrome	M	-	-	-	1	1	2	0.49
	F	-	-	-	-	-	-	-
	T	-	-	-	1	1	2	0.49
Hyperkinetic syndrome	M	-	-	-	4	3	7	1.70
	F	-	-	-	-	1	1	0.24
	T	-	-	-	4	5	9	2.19
Stuttering and specific developmental delays	M	1	4	11	16	18	50	12.17
	F	-	5	5	12	9	31	7.54
	T	1	11	18	28	28	86	20.92
Mental retardation	M	-	1	4	8	11	24	5.84
	F	1	1	6	1	12	21	5.11
	T	1	2	10	9	23	45	10.95
Childhood cerebral degenerations and acquired hydrocephalus	M	-	1	1	2	2	6	1.46
	F	-	5	2	1	2	10	2.43
	T	-	6	3	3	4	16	3.89
Infantile cerebral palsy	M	-	1	6	1	5	13	3.16
	F	-	-	2	11	5	18	4.38
	T	-	2	8	12	10	32	7.79
Hemiplegia	M	-	-	1	-	-	1	0.24
	F	-	-	-	-	1	1	0.24
	T	-	-	1	-	1	2	0.49
Quadriplegia	M	-	-	1	-	-	1	0.24
	F	-	-	-	-	-	-	-
	T	-	-	1	-	-	1	0.24
Paraplegia	M	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-
Other paralytic syndromes	M	-	1	-	5	3	9	2.19
	F	-	-	1	1	2	4	0.97
	T	-	1	1	6	5	13	3.16
Epilepsy	M	-	8	4	15	18	45	10.95
	F	-	10	2	9	5	26	6.33
	T	-	18	6	24	24	72	17.52
Retrolental fibroplasia	M	-	-	-	1	4	5	1.22
	F	-	1	-	1	2	4	0.97
	T	-	1	-	2	6	9	2.19
All other visual impairments/ blindness	M	1	1	2	4	12	20	4.87
	F	-	3	6	8	8	25	6.08
	T	1	4	9	12	20	46	11.19
Abnormal auditory perception and deafness	M	-	-	1	2	4	7	1.70
	F	-	-	3	4	2	9	2.19
	T	-	1	4	6	7	18	4.38
Rheumatoid arthritis (juvenile)	M	-	-	-	1	2	3	0.73
	F	-	-	-	2	1	3	0.73
	T	-	-	-	3	3	6	1.46
Disorders of muscle, ligament and fascia	M	-	-	-	-	2	2	0.49
	F	-	-	-	-	1	1	0.24
	T	-	-	-	-	3	3	0.73
Osteochondropathies	M	-	-	2	2	2	6	1.46
	F	-	-	-	1	1	2	0.49
	T	-	-	2	3	3	8	1.95
Other acquired deformities of limbs	M	-	-	2	1	5	8	1.95
	F	-	-	-	-	3	3	0.73
	T	-	-	2	1	8	11	2.68
Curvature of spine	M	-	-	1	-	-	1	0.24
	F	-	-	-	1	2	3	0.73
	T	-	-	1	1	2	4	0.97
Total Diagnoses	**M**	2	17	39	66	98	222	54.01
	F	1	28	28	55	66	178	43.31
	T	3	49	70	121	168	411	100.0
Total Cases	**M**	2	12	29	54	74	171	
	F	1	24	20	34	51	130	
	T	3	38	52	88	126	307	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 82

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
52 Northern Interior Health Service Delivery Area

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	-	1	-	1	2	0.27
	F	-	-	-	1	-	1	0.14
	T	-	-	1	1	1	3	0.41
Hemangioma and lymphangiona	M	2	2	4	1	1	10	1.37
	F	-	3	3	-	4	10	1.37
	T	2	6	7	1	5	21	2.88
Neurofibromatosis/ von Recklinghausen's	M	-	-	1	-	-	1	0.14
	F	-	-	-	1	1	2	0.27
	T	-	-	1	2	1	4	0.55
Diabetes mellitus	M	-	-	1	7	9	17	2.33
	F	-	-	-	2	4	6	0.82
	T	-	-	1	9	13	23	3.15
Disorders of adrenal glands	M	-	-	1	-	-	1	0.14
	F	-	-	-	-	2	2	0.27
	T	-	-	1	-	2	3	0.41
Tourette's syndrome	M	-	-	2	2	2	6	0.82
	F	-	-	-	-	-	-	-
	T	-	-	2	2	2	6	0.82
Hyperkinetic syndrome	M	-	-	1	9	5	15	2.05
	F	-	-	1	1	-	2	0.27
	T	-	-	2	12	5	19	2.60
Stuttering and specific developmental delays	M	-	-	34	27	45	106	14.52
	F	-	9	14	18	10	51	6.99
	T	-	9	50	50	55	164	22.47
Mental retardation	M	2	3	9	12	13	39	5.34
	F	3	3	7	13	11	37	5.07
	T	5	8	16	25	24	78	10.68
Childhood cerebral degenerations and acquired hydrocephalus	M	-	1	3	2	6	12	1.64
	F	-	-	4	1	3	8	1.10
	T	-	1	7	3	9	20	2.74
Infantile cerebral palsy	M	-	1	8	9	22	40	5.48
	F	-	5	5	9	17	36	4.93
	T	-	6	13	18	39	76	10.41
Hemiplegia	M	-	-	1	2	6	9	1.23
	F	-	-	1	1	1	3	0.41
	T	-	-	2	3	8	13	1.78
Quadriplegia	M	-	-	-	1	-	1	0.14
	F	-	-	1	2	2	5	0.68
	T	-	-	1	3	2	6	0.82
Paraplegia	M	-	-	-	-	1	1	0.14
	F	-	-	-	-	-	-	-
	T	-	-	-	-	1	1	0.14
Other paralytic syndromes	M	-	-	-	1	3	4	0.55
	F	-	-	1	2	1	4	0.55
	T	-	-	1	3	4	8	1.10
Epilepsy	M	-	11	8	5	27	51	6.99
	F	1	4	5	15	11	36	4.93
	T	1	15	13	20	38	87	11.92
Retrolental fibroplasia	M	-	-	-	1	2	3	0.41
	F	-	5	-	2	1	8	1.10
	T	-	5	-	3	3	11	1.51
All other visual impairments/ blindness	M	-	2	9	7	43	61	8.36
	F	-	8	9	14	20	51	6.99
	T	-	10	18	21	65	114	15.62
Abnormal auditory perception and deafness	M	-	-	4	9	6	19	2.60
	F	-	2	4	5	5	16	2.19
	T	-	2	8	14	11	35	4.79
Rheumatoid arthritis (juvenile)	M	-	-	-	1	2	3	0.41
	F	-	-	-	2	2	4	0.55
	T	-	-	-	3	4	7	0.96
Disorders of muscle, ligament and fascia	M	-	1	-	-	4	5	0.68
	F	-	-	-	-	-	-	-
	T	-	1	-	-	4	5	0.68
Osteochondropathies	M	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-
Other acquired deformities of limbs	M	-	1	2	2	5	10	1.37
	F	-	-	-	2	3	5	0.68
	T	-	1	2	4	8	15	2.05
Curvature of spine	M	-	-	-	-	1	1	0.14
	F	-	-	-	1	9	10	1.37
	T	-	-	-	1	10	11	1.51
Total Diagnoses	**M**	4	22	89	98	204	417	57.12
	F	4	39	55	92	107	297	40.68
	T	8	64	146	198	314	730	100.0
Total Cases	**M**	3	21	66	78	127	295	
	F	3	26	40	60	71	200	
	T	6	50	108	143	199	506	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Table 83

Counts of Children (less than 20 yrs.) Living with Selected Disabilities and Handicapping Conditions by Age Group
British Columbia, As of Year-End 2000
53 Northeast Health Service Delivery Area

Disability	Gender	<1	1-4	5-9	10-14	15-19	Total	% Total
Retinoblastoma	M	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-
Hemangioma and lymphangiona	M	1	1	-	3	2	7	2.30
	F	-	-	-	1	1	2	0.66
	T	1	1	-	4	3	9	2.95
Neurofibromatosis/ von Recklinghausen's	M	-	-	-	-	1	1	0.33
	F	-	-	1	1	-	2	0.66
	T	-	-	1	1	1	3	0.98
Diabetes mellitus	M	-	-	1	3	5	9	2.95
	F	-	-	1	1	1	3	0.98
	T	-	-	2	4	6	12	3.93
Disorders of adrenal glands	M	-	-	-	1	-	1	0.33
	F	-	-	1	-	-	1	0.33
	T	-	-	1	1	-	2	0.66
Tourette's syndrome	M	-	-	-	1	-	1	0.33
	F	-	-	-	1	-	1	0.33
	T	-	-	-	2	-	2	0.66
Hyperkinetic syndrome	M	-	-	-	2	3	5	1.64
	F	-	-	-	1	-	1	0.33
	T	-	-	-	3	3	6	1.97
Stuttering and specific developmental delays	M	-	1	3	6	15	25	8.20
	F	-	1	-	8	3	12	3.93
	T	-	2	3	14	18	37	12.13
Mental retardation	M	-	5	2	2	9	18	5.90
	F	-	1	5	6	5	17	5.57
	T	-	6	7	8	14	35	11.48
Childhood cerebral degenerations and acquired hydrocephalus	M	-	1	-	-	2	3	0.98
	F	-	1	-	-	-	1	0.33
	T	-	2	-	-	2	4	1.31
Infantile cerebral palsy	M	-	1	1	3	6	11	3.61
	F	-	-	1	6	4	11	3.61
	T	-	1	2	9	10	22	7.21
Hemiplegia	M	-	-	-	1	1	0.33	
	F	-	-	-	1	-	1	0.33
	T	-	-	-	1	1	2	0.66
Quadriplegia	M	-	-	-	-	-	-	-
	F	-	-	-	1	-	1	0.33
	T	-	-	-	1	-	1	0.33
Paraplegia	M	-	-	1	-	-	1	0.33
	F	-	-	1	-	-	1	0.33
	T	-	-	2	-	-	2	0.66
Other paralytic syndromes	M	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-
Epilepsy	M	-	6	4	15	11	36	11.80
	F	1	2	3	10	8	24	7.87
	T	1	8	7	25	19	60	19.67
Retrolental fibroplasia	M	-	-	1	1	-	2	0.66
	F	-	1	-	-	2	3	0.98
	T	-	1	1	1	2	5	1.64
All other visual impairments/ blindness	M	-	3	3	9	22	37	12.13
	F	-	3	1	11	18	33	10.82
	T	-	6	4	20	40	70	22.95
Abnormal auditory perception and deafness	M	-	1	-	1	4	6	1.97
	F	-	-	-	3	5	8	2.62
	T	-	1	-	4	9	14	4.59
Rheumatoid arthritis (juvenile)	M	-	-	1	1	2	4	1.31
	F	-	1	1	1	2	5	1.64
	T	-	1	2	2	4	9	2.95
Disorders of muscle, ligament and fascia	M	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-
	T	-	-	-	-	-	-	-
Osteochondropathies	M	-	-	-	1	2	3	0.98
	F	-	-	-	-	-	-	-
	T	-	-	-	1	2	3	0.98
Other acquired deformities of limbs	M	-	-	-	1	1	2	0.66
	F	-	1	-	-	1	2	0.66
	T	-	1	-	1	2	4	1.31
Curvature of spine	M	-	-	1	-	2	3	0.98
	F	-	-	-	-	-	-	-
	T	-	-	1	-	2	3	0.98
Total Diagnoses	**M**	1	19	18	50	88	176	57.70
	F	1	11	15	52	50	129	42.30
	T	2	30	33	102	138	305	100.0
Total Cases	**M**	1	15	14	36	59	125	
	F	1	7	15	33	32	88	
	T	2	22	29	69	91	213	

Note: Refer to Appendix 1 for ICD-9 and ICD-10 codes used in each category. An individual with more than one diagnosed condition within a category is only counted once for that category. However, if an individual is diagnosed with a condition in more than one category they are counted in each category. Individuals with unknown gender are included in totals. Counts of Individuals still alive as of year-end 2001, born on or before 2000. Disabilities with less than 10 cases at the provincial level were excluded.

Appendix 1

Congenital Anomaly Categories and Codes

Diagnostic Category	ICD-9 Codes	ICD-10 Codes
Nervous System Defects	740-742	Q00-Q07
Anencephalus & similar defects	740.0-740.2	Q00
Neural tube defects	741, 742.0	Q01, Q05, Q07.0
Hydrocephalus	742.3	Q03
Other nervous system defects	742.1-742.2, 742.4-742.9	Q02, Q04, Q06, Q07.8-Q07.9, G90.1
Anomalies of the Eye	743	Q10-Q15
Anomalies of Ear, Face, Neck	744	Q16-Q18
Anomalies of Heart	745-746	Q20-Q24
Transposition of great vessels	745.1	Q20.1-Q20.3, Q20.5
Tetralogy of Fallot	745.2	Q21.3
Ventricular septal defect	745.4	Q21.0, Q21.2
Hypoplastic left heart syndrome	746.7	Q23.4
Other heart anomalies	745.0, 745.3, 745.5-746.6, 746.8-746.9	Q20.0, Q20.4, Q20.6-Q20.9, Q21.1, Q21.4-Q21.9, Q22, Q23.0-Q23.3, Q23.8-Q23.9, Q24
Anomalies of Circulatory System	747	P29.3, Q25-Q28
Patent ductus arteriosus	747.0	Q25.0
Anomalies of Respiratory System	748	Q30-Q34
Cleft Palate/Cleft Lip	749.0-749.2	Q35-Q37
Anomalies of Upper Alimentary Tract	750	Q38-Q40
Tracheoesophageal fistula	750.3	Q39.1-Q39.2
Pyloric stenosis	750.5	Q40.0
Other anomalies of alimentary tract	750.0-750.2, 750.4, 750.6-750.9	Q38, Q39.0, Q39.3-Q39.9, Q40.1-Q40.9
Other Anomalies of Digestive System	751	Q41-Q45
Anomalies of Genital Organs	752	Q50-Q56

Anomalies of Urinary System	753	Q60-Q64
Renal agenesis	753.0	Q60
Cystic kidney disease	753.1	Q61
Other urinary anomalies	753.2-753.9	Q62-Q64
Congenital Musculoskeletal Deformities	754-756	Q65-Q79, R29.4
Congenital anomalies of spine	754.2, 756.1	Q67.5, Q76.0-Q76.4
Congenital dislocation of hip	754.3	Q65.0-Q65.6, Q65.8-Q65.9
Varus, valgus, clubfoot	754.5-754.7	Q66
Polydactyly, syndactyly	755.0-755.1	Q69-Q70
Limb reductions	755.2-755.4	Q71-Q73
Chondro/osteo dystrophies	756.4-756.5	Q77.0-Q78.4, Q78.6-Q78.9
Other musculoskeletal deformities	754.0-754.1, 754.4, 754.8-754.9, 755.5-756.0, 756.2-756.3, 756.6-756.9	Q65.7**, Q67.0-Q67.4, Q67.6-Q67.8, Q68, Q74-Q75, Q76.5-Q76.9, Q78.5, Q79, R29.4
Anomalies of the Integument	228, 757	D18, Q80-Q84
Hemangioma & lymphangioma	228	D18
Other anomalies of integument	757	Q80-Q84
Fetal Alcohol Spectrum Disorder	760.7*	Q86.0
Chromosomal Anomalies	758	Q90-Q99
Down's syndrome	758.0	Q90
Other chromosomal anomalies	758.1-758.9	Q91-Q99
Multiple Anomalies	759.7-759.8	Q86.1-Q86.8, Q87, Q89.7-Q89.8
Other & Unspecified Anomalies	237.7, 759.0-759.6, 759.9	Q85, Q89.0-Q89.4, Q89.9

Notes: * Etiologies indicating causes other than alcohol (eg hydantoins) were excluded.
** Special code used for dislocatable/sublocatable hip

Other Genetic Conditions Categories and Codes

Diagnostic Category	ICD-9 Codes	ICD-10 Codes
Congenital syphilis	090.0	A50
Acromegaly/gigantism	253.0	E22.0, E34.4
Hypopituitarism (includes dwarfism)	253.2-353.4	E23.0
Hyperpituitarism and other pituitary disorders	253.1, 253.5-253.9	E22.1-E22.9, E23.1-E23.2, E23.6-E23.7
Phenylketonuria (PKU)	270.1	E70.0-E70.1
Other disorders of amino-acid metabolism (including Rett's syndrome)	270.0, 270.2-270.9, 299.1	E70.2-E71.2, F84.2-F84.3
Disorders of carbohydrate metabolism	271	E73-E74
Disorders of protein metabolism	273	C88.0-C88.2, D47.2, D89.0-D89.1, E77, E88.0
Disorders of mineral metabolism	275	E20.1, E83, M11
Cystic fibrosis	277.0	E84
Other and unspecified metabolism disorders	277.1-277.9	D76, E713, E76.8-E76.9, E79.1, E79.8-E79.9, E80, E85, E88.8
Hereditary hemolytic and aplastic anemias	282, 284.0	D55.0, D55.8-D55.9, D56-D58, D61
Hemophilia and other coagulation defects	286	D65-D68
Huntington's chorea	333.4	G10
Other extrapyramidal diseases	333.0-333.3, 333.5-333.9	G23-G25, G80.3, G90.3
Anterior horn cell diseases (excludes ALS)	335.0-335.1. 335.8-335.9	G12
Hereditary peripheral neuropathy	356	G60, G64
Muscular dystrophy	359.0-359.1	G71.0, G71.2-G71.3
Other myopathies	359.2-359.9	G71.1, G71.8-G71.9, G72
Hereditary disturbance in tooth structure	520	K00.0-K01.1

Disabilities and Handicapping Conditions Categories and Codes

Diagnostic Category	ICD-9 Codes	ICD-10 Codes
Retinoblastoma	190.5	C69.2
Hemangioma and lymphangioma	228	D18
Neurofibromatosis/von Recklinghausen' s	237.7	Q85.0
Diabetes mellitus	250	E10-E14
Disorders of adrenal glands	255	E24-E25.0, E26.0-E27, E71.3, E89.6
Tourette's syndrome	307.2	F95.2
Hyperkinetic syndrome	314	F90
Stuttering and specific developmental delays	307.0, 315, 783.4	F80-F83, F89, F98.5-F98.6, R62
Mental retardation	317-319	F70-F79
Childhood cerebral degenerations and acquired hydrocephalus	330, 331.3-331.4	E75.0-E75.4, G31.8-G31.9, G91
Infantile cerebral palsy	343	G80.0-G80.2, G80.4-G80.9
Hemiplegia	342	G81
Quadriplegia	344.0	G82.3-G82.5
Paraplegia	344.1	G82.0-G82.2
Other paralytic syndromes	344.2-344.9	G83, G95.8, N31.9
Epilepsy	345	G40-41
Retrolental fibroplasia	362.2	H35.1
Blindness, strabismus, and other visual impairments	361.0-362.1, 362.3-369.9, 371, 377-379, 743	H17-H18, H26, H31 H33-H35, H46-H58, Q11.0-Q11.1
Abnormal auditory perception and deafness	388.0-388.5, 389, 744.0	H83.3, H90-H91, H93.0-H93.3
Rheumatoid arthritis	714	M05.0, M05.8-M05.9, M06.1-M06.3, M06.8-M06.9, M08
Disorders of muscle, ligament and fascia	728	M24.2, M35.7, M60.0-M60.2, M61-M62, M72.0-M72.4, M72.8-M72.9

Disabilities and Handicapping Conditions Categories and Codes continued

Diagnostic Category	ICD-9 Codes	ICD-10 Codes
Osteochondropathies	732	M42, M43.1, M91-M93
Other acquired deformities of limbs	736, N885-897	M20.0, M21.0-M21.3, M21.5-M21.9, S48, S58, S68, S78, S88, S71, S81, S91, S98, T01.3, T05.0-T05.6, T11.6, T13.1, T13.6
Curvature of spine	737	M40-M41, M43.9, M96.2-M96.5

Appendix 2

This appendix presents birth defects monitoring information by health service delivery area for 2000, 1999, and 1998. The birth defect monitoring categories consist of

- anencephalus
- spina bifida
- hydrocephalus
- hypoplastic left heart syndrome
- cleft palate
- cleft lip (with or without cleft palate)
- tracheoesophageal fistula, atresia or stenosis of large intestine
- hypospadias and epispadias
- renal agenesis
- limb anomalies
- anomalies of skull and face bones
- Down's syndrome

The limb anomalies category is comprised of four of the categories used in the congenital anomalies section of this report:

- congenital dislocated hip
- foot anomalies (varus, valgus, and clubfoot)
- finger anomalies (polydactyly and syndactyly)
- limb reductions

Table 84

Birth Defect Monitoring by Health Service Delivery Area
British Columbia, 2000

Diagnosis (ICD-9, ICD-10)	Gender	Total # of Diagnosis				Health Service Delivery Area						
		Actual	Expected	Ratio	(p)	EK 11	KB 12	OK 13	TC 14	FV 21	SIFR 22	SOFR 23
Anencephalus	M	1	3.14	0.32		-	-	-	-	-	-	-
740.0, Q00.0	F	4	3.68	1.09		-	-	-	-	1	-	1
	T	6	7.36	0.82		-	-	-	-	1	-	1
Spina bifida	M	11	13.81	0.80		-	-	-	-	-	1	-
741, Q05	F	6	19.56	0.31	*	-	-	-	-	-	-	-
	T	17	34.54	0.49	*	-	-	-	-	-	1	-
Hydrocephalus	M	12	12.10	0.99		-	-	2	-	1	1	-
742.3, Q03	F	8	8.07	0.99		-	-	-	-	-	2	-
	T	20	20.54	0.97		-	-	2	-	1	3	-
Hypoplastic left heart syndrome	M	4	6.28	0.64		-	-	-	1	1	-	-
746.7, Q23.4	F	3	4.22	0.71		-	-	-	-	-	-	-
	T	8	10.86	0.74		-	-	-	1	1	-	-
Cleft palate	M	30	20.44	1.47	*	-	-	1	-	-	4	12
749.0, Q35	F	15	22.52	0.67		-	-	4	-	1	-	2
	T	46	43.78	1.05		-	-	5	-	1	4	14
Cleft lip with/without cleft palate	M	51	45.90	1.11		-	-	8	2	3	-	14
749.1-749.2, Q36-Q37	F	37	23.96	1.54	*	-	1	8	5	-	4	5
	T	88	70.61	1.25	*	-	1	16	7	3	4	19
Tracheoesophageal fistula	M	1	7.17	0.14	+	-	-	-	-	-	-	1
750.3, Q39.1-Q39.2	F	7	5.20	1.35		-	-	-	1	-	2	-
	T	8	12.65	0.63		-	-	-	1	-	2	1
Atresia/stenosis of large intestine	M	18	15.15	1.19		-	-	-	-	2	4	4
751.2, Q41-Q42	F	22	12.83	1.71	*	-	-	1	-	1	2	1
	T	40	28.62	1.40	*	-	-	1	-	3	6	5
Hypospadias and epispadias	M	112	98.07	1.14		1	5	5	5	4	14	13
752.6, Q54, Q64.0	F	-	0.36	-		-	-	-	-	-	-	-
	T	113	99.67	1.13		1	5	5	5	4	14	14
Renal agenesis	M	15	13.36	1.12		-	-	-	-	3	4	-
753.0, Q60	F	11	7.90	1.39		-	-	-	-	2	-	4
	T	26	21.80	1.19		-	-	-	-	5	4	4
Limb anomalies	M	392	256.20	1.53	*	6	-	3	15	11	47	76
754.3-755.9, Q65-Q74	F	494	310.08	1.59	*	10	6	32	19	24	79	83
	T	886	573.10	1.55	*	16	6	60	34	35	126	159
Anomalies of skull and face bones	M	29	27.61	1.05		-	-	2	1	-	9	5
756.0, Q75	F	9	17.50	0.51	*	-	-	1	2	-	-	-
	T	38	46.83	0.81		-	-	3	3	-	9	5
Down's syndrome	M	37	30.75	1.20		1	1	3	1	3	6	5
758.0, Q90	F	31	26.29	1.18		-	-	2	1	-	2	1
	T	74	59.39	1.25		1	1	5	2	3	8	6
Total of the above diagnoses	M	713	549.97	1.30	*	8	6	49	25	28	90	130
	F	647	462.16	1.40	*	10	7	48	28	29	91	97
	T	**1,370**	**1,029.80**	**1.33**	*	**18**	**13**	**97**	**53**	**57**	**181**	**228**
Number of cases	M	563				8	6	38	19	21	74	96
	F	527				9	7	39	20	14	72	88
	T	**1,100**				**17**	**13**	**76**	**39**	**35**	**146**	**185**
Total Births	M	20,919				346	335	1,339	1,020	1,496	2,929	3,631
	F	19,821				329	310	1,264	899	1,398	2,799	3,298
	T	**40,775**				**675**	**645**	**2,604**	**1,919**	**2,896**	**5,731**	**6,933**

Notes: Birth Defect Monitoring is based on usual address at time of birth from the Health Status Registry.
Gender unknown is included in totals. Non-B.C. residents are excluded. Number of expected diagnosis are based on observed diagnosis for birth events of B.C. residents during 1990 to 1999 inclusive.
Total are of total diagnosis, individuals may have more than one diagnosis.
*Statistical testing indicates that actual number of diagnosis are significantly different from the expected ($p<0.05$, two tailed).
+ Denotes significance based on less than five diagnosis.
N.S. - Not Stated. Totals as of December 31, 2000.

Table 84

Birth Defect Monitoring by Health Service Delivery Area
British Columbia, 2000

		Health Service Delivery Area									
		RICH	VAN	NSCG	SVI	CVI	NVI	NW	NI	NE	
Diagnosis (ICD-9, ICD-10)	Gender	31	32	33	41	42	43	51	52	53	N.S.
Anencephalus	M	-	1	-	-	-	-	-	-	-	-
740.0, Q00.0	F	-	1	-	-	-	-	-	-	1	-
	T	-	3	-	-	-	-	-	-	1	-
Spina bifida	M	-	8	-	1	-	-	-	1	-	-
741, Q05	F	-	6	-	-	-	-	-	-	-	-
	T	-	14	-	1	-	-	-	1	-	-
Hydrocephalus	M	-	6	-	2	-	-	-	-	-	-
742.3, Q03	F	-	6	-	-	-	-	-	-	-	-
		-	12	-	2	-	-	-	-	-	-
Hypoplastic left heart syndrome	M	-	2	-	-	-	-	-	-	-	-
746.7, Q23.4	F	-	-	-	3	-	-	-	-	-	-
	T	-	3	-	3	-	-	-	-	-	-
Cleft palate	M	2	5	-	3	2	-	-	1	-	-
749.0, Q35	F	-	2	3	3	-	-	-	-	-	-
	T	2	8	3	6	2	-	-	1	-	-
Cleft lip with/without cleft palate	M	2	7	1	3	4	-	3	4	-	-
749.1-749.2, Q36-Q37	F	-	10	-	-	-	-	2	-	1	1
	T	2	17	1	3	4	-	5	4	1	1
Tracheoesophageal fistula	M	-	-	-	-	-	-	-	-	-	-
750.3, Q39.1-Q39.2	F	-	4	-	-	-	-	-	-	-	-
	T	-	4	-	-	-	-	-	-	-	-
Atresia/stenosis of large intestine	M	-	4	1	-	-	2	-	-	1	-
751.2, Q41-Q42	F	-	16	-	1	-	-	-	-	-	-
	T	-	20	1	1	-	2	-	-	1	-
Hypospadias & epispadias	M	3	24	8	9	4	2	2	6	7	-
752.6, Q54, Q64.0	F	-	-	-	-	-	-	-	-	-	-
	T	3	24	8	9	4	2	2	6	7	-
Renal agenesis	M	-	6	1	1	-	-	-	-	-	-
753.0, Q60	F	-	3	-	-	-	-	-	-	2	-
	T	-	9	1	1	-	-	-	-	2	-
Limb anomalies	M	15	86	24	24	14	3	6	31	6	-
754.3-755.9, Q65-Q74	F	12	101	25	19	10	6	18	27	23	-
	T	27	187	49	43	24	9	24	58	29	-
Anomalies of skull & face bones	M	1	5	2	-	2	-	1	1	-	-
756.0, Q75	F	-	3	-	2	-	-	-	1	-	-
	T	1	8	2	2	2	-	1	2	-	-
Down's syndrome	M	1	9	3	-	3	-	-	1	-	-
758.0, Q90	F	2	10	-	10	-	-	1	2	-	-
	T	3	25	3	10	3	-	1	3	-	-
Total of the above Diagnoses	M	24	163	40	43	29	7	12	45	14	-
	F	14	162	28	38	10	6	21	30	27	1
	T	**38**	**334**	**68**	**81**	**39**	**13**	**33**	**75**	**41**	**1**
Number of Cases	M	20	138	32	36	19	5	7	36	8	-
	F	12	137	21	33	9	4	15	24	23	1
	T	**32**	**284**	**53**	**69**	**28**	**9**	**22**	**60**	**31**	**1**
Total Births	M	817	2,985	1,304	1,635	948	281	591	820	436	6
	F	770	2,833	1,214	1,657	918	299	530	839	464	-
	T	**1,589**	**5,827**	**2,524**	**3,295**	**1,867**	**581**	**1,123**	**1,660**	**900**	**6**

Table 85

Birth Defect Monitoring by Health Service Delivery Area
British Columbia, 1999

Diagnosis (ICD-9, ICD-10)	Gender	Total # of Diagnosis Actual	Expected	Ratio	(p)	Health Service Delivery Area EK 11	KB 12	OK 13	TC 14	FV 21	SIFR 22	SOFR 23
Anencephalus	M	3	3.43	0.88		-	-	-	-	-	1	-
740.0, Q00.0	F	7	3.85	1.82		-	-	-	-	-	1	1
	T	10	7.83	1.28		-	-	-	-	-	2	1
Spina bifida	M	24	14.26	1.68	*	-	-	-	4	2	2	5
741, Q05	F	19	20.69	0.92		-	-	2	-	-	4	-
	T	43	36.20	1.19		-	-	2	4	2	6	5
Hydrocephalus	M	13	11.86	1.10		-	-	1	-	1	3	-
742.3, Q03	F	12	8.24	1.46		-	-	-	-	-	-	1
	T	25	20.45	1.22		-	-	1	-	1	3	1
Hypoplastic left heart syndrome	M	5	6.21	0.81		-	-	-	1	-	1	1
746.7, Q23.4	F	6	3.94	1.52		-	-	-	-	-	-	-
	T	11	10.50	1.05		-	-	-	1	-	1	1
Cleft palate	M	27	20.47	1.32		-	-	3	-	-	3	10
749.0, Q35	F	21	23.08	0.91		-	-	-	-	-	4	1
	T	48	44.39	1.08		-	-	3	-	-	7	11
Cleft lip with/without cleft palate	M	53	46.50	1.14		-	2	7	2	8	3	7
749.1-749.2, Q36-Q37	F	34	23.35	1.46	*	-	-	-	-	3	7	6
	T	88	70.37	1.25	*	-	2	7	2	11	10	13
Tracheoesophageal fistula	M	3	8.06	0.37		-	-	-	-	-	1	-
750.3, Q39.1-Q39.2	F	7	4.76	1.47		-	-	1	-	-	-	1
	T	10	13.08	0.76		-	-	1	-	-	1	1
Atresia/stenosis of large intestine	M	20	15.75	1.27		-	1	-	3	2	4	1
751.2, Q41-Q42	F	14	12.45	1.12		-	1	1	1	-	1	4
	T	34	28.83	1.18		-	2	1	4	2	5	5
Hypospadias and epispadias	M	112	99.11	1.13		1	4	6	3	6	21	7
752.6, Q54, Q64.0	F	-	0.37	-		-	-	-	-	-	-	-
	T	112	100.12	1.12		1	4	6	3	6	21	7
Renal agenesis	M	19	12.97	1.47		-	-	1	1	-	1	3
753.0, Q60	F	12	7.60	1.58		-	-	1	-	-	-	2
	T	31	21.09	1.47	*	-	-	2	1	-	1	5
Limb anomalies	M	379	245.46	1.54	*	8	2	24	20	7	48	42
754.3-755.9, Q65-Q74	F	521	288.44	1.81	*	6	1	37	25	19	53	90
	T	903	540.84	1.67	*	14	3	61	45	28	101	132
Anomalies of skull and face bones	M	37	27.51	1.34		-	-	1	3	1	5	5
756.0, Q75	F	16	17.31	0.92		-	-	-	-	2	2	1
	T	53	46.70	1.13		-	-	1	3	3	7	6
Down's syndrome	M	23	33.07	0.70		1	-	3	-	2	3	2
758.0, Q90	F	28	25.82	1.08		-	1	3	-	4	5	1
	T	53	61.07	0.87		1	1	6	-	6	8	3
Total of the above diagnoses	M	718	544.64	1.32	*	10	9	46	37	29	96	83
	F	697	439.90	1.58	*	6	3	45	26	28	77	108
	T	**1,421**	**1,001.40**	**1.42**	*	**16**	**12**	**91**	**63**	**59**	**173**	**191**
Number of cases	M	565				10	7	40	23	19	80	66
	F	574				6	3	38	20	20	63	96
	T	**1,144**				**16**	**10**	**78**	**43**	**40**	**143**	**162**
Total Births	M	21,690				380	365	1,393	1,056	1,552	3,043	3,677
	F	20,330				365	320	1,369	994	1,493	2,658	3,516
	T	**42,037**				**745**	**685**	**2,762**	**2,050**	**3,045**	**5,702**	**7,199**

Notes: Birth Defect Monitoring is based on usual address at time of birth from the Health Status Registry.
Gender unknown is included in totals. Non-B.C. residents are excluded. Number of expected diagnosis are based on observed diagnosis for birth events of B.C. residents during 1989 to 1998 inclusive.
Total are of total diagnosis, individuals may have more than one diagnosis.
*Statistical testing indicates that actual number of diagnosis are significantly different from the expected ($p<0.05$, two tailed).
+ Denotes significance based on less than five diagnosis.
N.S. - Not Stated. Totals as of December 31, 1999.

Table 85

Birth Defect Monitoring by Health Service Delivery Area
British Columbia, 1999

		Health Service Delivery Area									
		RICH	VAN	NSCG	SVI	CVI	NVI	NW	NI	NE	
Diagnosis (ICD-9, ICD-10)	Gender	31	32	33	41	42	43	51	52	53	N.S.
Anencephalus	M	-	1	-	-	-	-	1	-	-	-
740.0, Q00.0	F	-	4	-	-	-	-	1	-	-	-
	T	-	5	-	-	-	-	2	-	-	-
Spina bifida	M	-	9	-	-	-	-	-	-	2	-
741, Q05	F	1	10	-	-	-	-	-	2	-	-
	T	1	19	-	-	-	-	-	2	2	-
Hydrocephalus	M	-	6	1	-	-	-	1	-	-	-
742.3, Q03	F	-	7	1	2	1	-	-	-	-	-
		-	13	2	2	1	-	1	-	-	-
Hypoplastic left heart syndrome	M	-	-	-	1	-	-	-	-	-	1
746.7, Q23.4	F	-	6	-	-	-	-	-	-	-	-
	T	-	6	-	1	-	-	-	-	-	1
Cleft palate	M	1	2	-	-	3	1	-	2	2	-
749.0, Q35	F	-	5	2	6	2	1	-	-	-	-
	T	1	7	2	6	5	2	-	2	2	-
Cleft lip with/without cleft palate	M	-	10	4	3	-	-	3	3	1	-
749.1-749.2, Q36-Q37	F	5	8	2	1	-	2	-	-	-	-
	T	5	18	6	5	-	2	3	3	1	-
Tracheoesophageal fistula	M	-	1	-	-	-	-	-	1	-	-
750.3, Q39.1-Q39.2	F	-	3	-	2	-	-	-	-	-	-
	T	-	4	-	2	-	-	-	1	-	-
Atresia/stenosis of large intestine	M	1	5	-	2	-	1	-	-	-	-
751.2, Q41-Q42	F	-	5	-	1	-	-	-	-	-	-
	T	1	10	-	3	-	1	-	-	-	-
Hypospadias & epispadias	M	1	30	6	11	5	-	-	6	5	-
752.6, Q54, Q64.0	F	-	-	-	-	-	-	-	-	-	-
	T	1	30	6	11	5	-	-	6	5	-
Renal agenesis	M	-	7	1	3	2	-	-	-	-	-
753.0, Q60	F	-	5	-	-	4	-	-	-	-	-
	T	-	12	1	3	6	-	-	-	-	-
Limb anomalies	M	5	105	25	29	21	8	11	17	7	-
754.3-755.9, Q65-Q74	F	22	153	31	27	17	-	11	25	4	-
	T	27	259	56	56	38	8	22	42	11	-
Anomalies of skull & face bones	M	2	7	3	3	3	-	-	3	1	-
756.0, Q75	F	-	5	2	1	2	-	-	1	-	-
	T	2	12	5	4	5	-	-	4	1	-
Down's syndrome	M	-	9	-	-	1	-	-	-	2	-
758.0, Q90	F	-	9	-	2	1	-	-	1	1	-
	T	-	19	-	2	3	-	-	1	3	-
Total of the above Diagnoses	M	10	192	40	52	35	10	16	32	20	1
	F	28	220	38	42	27	3	12	29	5	-
	T	**38**	**414**	**78**	**95**	**63**	**13**	**28**	**61**	**25**	**1**
Number of Cases	M	10	150	28	42	29	6	15	28	11	1
	F	22	173	32	35	20	2	12	28	4	-
	T	**32**	**325**	**60**	**78**	**50**	**8**	**27**	**56**	**15**	**1**
Total Births	M	805	2,946	1,321	1,737	1,111	322	558	968	454	2
	F	727	2,817	1,234	1,653	1,048	297	583	849	405	2
	T	**1,533**	**5,763**	**2,557**	**3,391**	**2,160**	**619**	**1,142**	**1,819**	**861**	**4**

Table 86

Birth Defect Monitoring by Health Service Delivery Area
British Columbia, 1998

		Total # of Diagnosis				Health Service Delivery Area						
						EK	KB	OK	TC	FV	SIFR	SOFR
Diagnosis (ICD-9, ICD-10)	Gender	Actual	Expected	Ratio	(p)	11	12	13	14	21	22	23
Anencephalus	M	3	3.95	0.76		-	-	-	-	-	-	1
740.0, Q00.0	F	1	4.56	0.22		-	-	-	-	-	-	-
	T	4	9.07	0.44		-	-	-	-	-	-	1
Spina bifida	M	13	14.66	0.89		-	-	-	1	-	-	-
741, Q05	F	16	22.44	0.71		2	-	4	-	-	3	3
	T	29	38.28	0.76		2	-	4	1	-	3	3
Hydrocephalus	M	8	12.31	0.65		-	1	-	1	-	-	2
742.3, Q03	F	5	9.32	0.54		-	-	-	-	-	-	1
	T	14	21.93	0.64		-	1	-	1	-	-	3
Hypoplastic left heart syndrome	M	7	6.11	1.15		-	1	-	-	-	-	2
746.7, Q23.4	F	8	3.33	2.40	*	-	-	-	1	1	1	-
	T	16	9.74	1.64	*	-	1	1	1	1	1	2
Cleft palate	M	23	20.29	1.13		1	-	1	-	4	3	2
749.0, Q35	F	25	24.05	1.04		-	2	1	-	-	9	4
	T	48	45.27	1.06		1	2	2	-	4	12	6
Cleft lip with/without cleft palate	M	59	44.63	1.32	*	2	-	1	-	3	14	10
749.1-749.2, Q36-Q37	F	34	23.20	1.47	*	-	-	3	1	3	3	3
	T	93	68.71	1.35	*	2	-	4	1	6	17	13
Tracheoesophageal fistula	M	6	8.27	0.73		-	2	-	-	-	-	-
750.3, Q39.1-Q39.2	F	8	4.56	1.75		-	-	-	-	-	1	4
	T	15	13.04	1.15		-	2	-	-	-	1	4
Atresia/stenosis of large intestine	M	10	17.19	0.58		-	-	2	1	-	-	2
751.2, Q41-Q42	F	19	12.64	1.50		-	-	1	-	-	1	1
	T	31	30.34	1.02		-	-	3	1	-	1	4
Hypospadias and epispadias	M	99	98.47	1.01		1	5	7	3	5	19	13
752.6, Q54, Q64.0	F	1	0.29	3.51		-	-	-	-	-	-	1
	T	100	100.56	0.99		1	5	7	3	5	19	14
Renal agenesis	M	14	13.06	1.07		-	2	1	-	-	1	1
753.0, Q60	F	8	8.08	0.99		-	-	1	-	-	-	2
	T	24	21.55	1.11		-	2	2	-	-	1	3
Limb anomalies	M	299	238.37	1.25	*	3	1	15	19	8	36	64
754.3-755.9, Q65-Q74	F	321	293.94	1.09		4	5	15	13	12	69	39
	T	628	538.36	1.17	*	7	6	30	32	20	107	106
Anomalies of skull and face bones	M	31	27.06	1.15		-	2	3	1	1	5	4
756.0, Q75	F	21	17.30	1.21		-	1	-	-	-	4	6
	T	53	46.31	1.14		-	3	3	1	1	9	10
Down's syndrome	M	31	33.07	0.94		2	-	-	1	-	1	6
758.0, Q90	F	34	25.57	1.33		-	-	3	-	2	5	5
	T	68	60.77	1.12		2	-	3	1	2	6	13
Total of the above diagnoses	M	603	537.43	1.12	*	9	14	30	27	21	79	107
	F	501	449.27	1.12	*	6	8	28	15	18	96	69
	T	**1,123**	**1,003.90**	**1.12**	*	**15**	**22**	**59**	**42**	**39**	**177**	**182**
Number of cases	M	443				7	8	21	19	12	60	76
	F	401				5	5	19	10	15	80	52
	T	**859**				**12**	**13**	**41**	**29**	**27**	**142**	**133**
Total Births	M	22,009				394	371	1,379	1,082	1,577	2,994	3,959
	F	21,106				354	341	1,356	1,190	1,513	2,798	3,661
	T	**43,143**				**748**	**712**	**2,737**	**2,272**	**3,090**	**5,795**	**7,629**

Notes: Birth Defect Monitoring is based on usual address at time of birth from the Health Status Registry.
Gender unknown is included in totals. Non-B.C. residents are excluded. Number of expected diagnosis are based on observed diagnosis for birth events of B.C. residents during 1988 to 1997 inclusive.
Total are of total diagnosis, individuals may have more than one diagnosis.
*Statistical testing indicates that actual number of diagnosis are significantly different from the expected ($p<0.05$, two tailed).
+ Denotes significance based on less than five diagnosis.
N.S. - Not Stated. Totals as of December 31, 1998.

Table 86

Birth Defect Monitoring by Health Service Delivery Area
British Columbia, 1998

		Health Service Delivery Area									
		RICH	VAN	NSCG	SVI	CVI	NVI	NW	NI	NE	
Diagnosis (ICD-9, ICD-10)	Gender	31	32	33	41	42	43	51	52	53	N.S.
Anencephalus	M	-	1	1	-	-	-	-	-	-	-
740.0, Q00.0	F	-	1	-	-	-	-	-	-	-	-
	T	-	2	1	-	-	-	-	-	-	-
Spina bifida	M	-	6	1	-	3	-	2	-	-	-
741, Q05	F	-	3	-	1	-	-	-	-	-	-
	T	-	9	1	1	3	-	2	-	-	-
Hydrocephalus	M	-	2	-	1	-	-	-	-	-	1
742.3, Q03	F	-	-	3	-	-	-	1	-	-	-
		-	3	3	1	-	-	1	-	-	1
Hypoplastic left heart syndrome	M	1	2	1	-	-	-	-	-	-	-
746.7, Q23.4	F	1	4	-	-	-	-	-	-	-	-
	T	2	6	1	-	-	-	-	-	-	-
Cleft palate	M	2	4	-	4	-	-	-	2	-	-
749.0, Q35	F	-	1	-	3	3	-	-	2	-	-
	T	2	5	-	7	3	-	-	4	-	-
Cleft lip with/without cleft palate	M	6	7	-	3	7	-	5	1	-	-
749.1-749.2, Q36-Q37	F	-	8	1	2	1	-	2	6	1	-
	T	6	15	1	5	8	-	7	7	1	-
Tracheoesophageal fistula	M	-	3	-	-	-	-	-	-	1	-
750.3, Q39.1-Q39.2	F	-	2	-	-	1	-	-	-	-	-
	T	-	6	-	-	1	-	-	-	1	-
Atresia/stenosis of large intestine	M	-	1	-	1	1	-	-	2	-	-
751.2, Q41-Q42	F	-	8	-	2	3	-	2	1	-	-
	T	-	9	-	3	4	-	2	4	-	-
Hypospadias & epispadias	M	4	18	2	6	3	1	3	7	1	1
752.6, Q54, Q64.0	F	-	-	-	-	-	-	-	-	-	-
	T	4	18	2	6	3	1	3	7	1	1
Renal agenesis	M	-	3	-	1	2	-	1	2	-	-
753.0, Q60	F	-	2	-	-	2	-	-	1	-	-
	T	-	6	-	1	4	-	1	4	-	-
Limb anomalies	M	13	65	4	23	15	4	4	21	4	-
754.3-755.9, Q65-Q74	F	8	79	10	15	15	3	4	22	7	1
	T	21	145	15	39	30	7	8	43	11	1
Anomalies of skull & face bones	M	2	6	3	1	1	-	1	1	-	-
756.0, Q75	F	-	3	1	1	1	-	-	3	1	-
	T	2	9	5	2	2	-	1	4	1	-
Down's syndrome	M	-	10	3	2	3	-	1	1	1	-
758.0, Q90	F	2	8	5	1	2	-	-	-	-	1
	T	2	19	8	3	5	-	1	1	1	1
Total of the above Diagnoses	M	28	128	15	42	35	5	17	37	7	2
	F	11	119	20	25	28	3	9	35	9	2
	T	**39**	**252**	**37**	**68**	**63**	**8**	**26**	**74**	**16**	**4**
Number of Cases	M	16	100	15	34	24	3	11	29	6	2
	F	11	101	15	23	22	2	9	23	7	2
	T	**27**	**205**	**31**	**58**	**46**	**5**	**20**	**53**	**13**	**4**
Total Births	M	851	2,805	1,271	1,768	1,084	337	627	1,025	484	1
	F	801	2,750	1,264	1,698	1,073	351	548	967	440	1
	T	**1,653**	**5,561**	**2,539**	**3,467**	**2,158**	**688**	**1,176**	**1,992**	**924**	**2**

Appendix 3

Table 87
Trends of Selected Congenital Anomalies for Total Births
British Columbia, 1981 - 2000

Diagnosis	81-83	82-84	83-85	84-86	85-87	86-88	87-89	88-90	89-91
Anencephalus & similar defects	0.43	0.32	0.28	0.34	0.33	0.32	0.28	0.28	0.22
Neural tube defects	0.96	0.93	0.98	1.14	1.11	1.11	1.10	1.23	1.19
Hydrocephalus	0.68	0.51	0.44	0.45	0.52	0.53	0.51	0.61	0.59
Ventricular septal defect	2.66	2.24	2.02	1.89	2.04	1.78	1.49	1.32	1.57
Patent ductus arteriosus	3.71	3.68	3.57	3.59	3.38	2.76	1.89	1.54	1.40
Cleft Palate/Cleft Lip	2.43	2.49	2.49	2.53	2.27	2.23	2.19	2.65	2.81
Congenital Dislocated Hip	0.51	0.54	0.53	0.49	0.55	0.48	0.34	0.20	0.17
Varus, vulgus, clubfoot	6.14	4.75	3.60	3.45	3.54	3.27	2.81	2.48	2.48
Polydactyly, syndactyly	1.91	1.77	1.58	1.63	1.66	1.78	1.57	1.52	1.40
Limb Reductions	0.84	0.78	0.76	0.75	0.74	0.76	0.61	0.57	0.53
Down's Syndrome	1.20	1.19	1.22	1.13	1.22	1.19	1.21	1.26	1.43
All Diagnoses	79.01	71.58	65.55	64.34	64.26	58.91	52.33	50.09	50.72

Note: Rate per 1,000 Total Births.

Table 87

Trends of Selected Congenital Anomalies for Total Births
British Columbia, 1981 - 2000

Diagnosis	90-92	91-93	92-94	93-95	94-96	95-97	96-98	97-99	98-00
Anencephalus & similar defects	0.20	0.17	0.19	0.20	0.21	0.17	0.12	0.15	0.16
Neural tube defects	1.23	1.08	1.04	0.79	0.85	0.79	0.77	0.81	0.78
Hydrocephalus	0.52	0.37	0.39	0.53	0.58	0.53	0.42	0.43	0.47
Ventricular septal defect	1.75	1.84	1.87	2.17	2.81	3.16	3.44	3.12	3.06
Patent ductus arteriosus	1.41	1.26	1.68	2.44	4.00	5.01	5.65	5.22	4.79
Cleft Palate/Cleft Lip	2.84	2.55	2.49	2.35	2.55	2.73	3.12	3.23	3.26
Congenital Dislocated Hip	0.22	0.28	0.34	0.32	0.36	0.38	0.43	0.42	0.42
Varus, vulgus, clubfoot	2.63	2.73	2.95	3.00	3.51	3.92	4.13	4.38	4.66
Polydactyly, syndactyly	1.49	1.44	1.43	1.30	1.49	1.62	1.82	1.94	2.20
Limb Reductions	0.62	0.57	0.43	0.45	0.58	0.68	0.67	0.59	0.62
Down's Syndrome	1.34	1.30	1.19	1.35	1.46	1.71	1.76	1.62	1.55
All Diagnoses	53.01	51.02	55.43	60.88	75.70	82.86	87.80	89.30	91.43

Note: Rate per 1,000 Total Births.

BRITISH COLUMBIA

Ministry of Health Planning

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